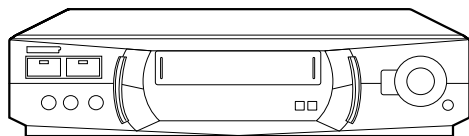


SHARP SERVICE MANUAL

SX9R2VC-M522H

VHS VIDEO CASSETTE RECORDER



VC-M522HM VC-MH722HM MODELS VC-MH732HM

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified be used.

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PRECAUTIONS IN PART REPLACEMENT

When servicing the unit with power on, be careful to the section marked white all over.

This is the primary power circuit which is live.

When checking the soldering side in the tape travel mode, make sure first that the tape has been loaded and then turn over the PWB with due care to the primary power circuit.

Make readjustment, if needed after replacement of part, with the mechanism and its PWB in position in the main frame.

(1) Start and end sensors: Q701 and Q702

Insert the sensor's projection deep into the upper hole of the holder. Referring to the PWB, fix the sensors tight enough.

(2) Photocoupler: IC901

Refer to the symbol on the PWB and the anode marking of the part.

(3) Cam switches A and B: D708 and D705.

Adjust the notch of the part to the white marker of the symbol on the PWB. Do not allow any looseness.

(4) Take-up and supply sensors: D711 and D712.

Be careful not to confuse the setting direction of the parts in reference to the symbols on the PWB. Do not allow any looseness.

1. SPECIFICATIONS

Format: VHS PAL standard
 Video recording system: Two rotary heads, helical scan system
 Video signal: PAL colour and I signals, 625 lines
 Recording/playing time: 240 min max. with SHARP E-240 tape (PAL SP)
 480 min max. with an E-240 tape (LP)
 Tape width: 12.7mm
 Tape speed: 23.39 mm/s (PAL SP)
 11.70 mm/s (PAL LP)
 Antenna: 75 ohm unbalanced
 Receiving channel: UHF Channel E21-E69
 RF converter output signal: UHF Channel E21-E69 (Preset to CH E36)
 Power requirement: AC230V ~ 240V, 50Hz
 Power consumption: Approx. 17W (AC230V/50Hz) and 1W max. at Low power mode (VC-M522HM)
 Approx. 19W (AC230V/50Hz) and 1W max. at Low power mode (VC-MH722HM/MH732HM)
 Operating temperature: 5°C to 40°C
 Storage temperature: -20°C to 60°C
 Weight: Approx. 3.8 kg (VC-M522HM) / 4 kg (VC-MH722HM/MH732HM)
 Dimensions: 430 mm (W) x 284 mm (D) x 92 mm (H)
 (15-30/32" x 11-1/16" x 3-25/32")

VIDEO
 Input: 1.0 Vp-p, 75 ohm
 Output: 1.0 Vp-p, 75 ohm
 S/N ratio: 45 dB (SP)
 Horizontal resolution: 260 lines (SP mode with Super Picture)
AUDIO 0 dBs = 0.775 Vrms
 Input: Line1: -3.8 dBs, 10k ohm
 Line 2:-3.8 dBs, 10k ohm
 Line 3:-3.8 dBs, 47k ohm
 Output: Line1: -3.8 dBs, 1k ohm
 Line 2:-3.8dBs, 1k ohm
 REAR RCA: -3.8dBs, 1k ohm (VC-MH722HM/MH732HM)
 S/N ratio: 46 dB
 Frequency response: 80 Hz ~ 10 kHz (SP mode)
 80HZ ~ 5Hz (LP mode)
 Hi-Fi Dynamic Range: 90 dB TYP (VC-MH722HM/MH732HM)
 Hi-Fi Wow and Flutter: 0.005% (VC-MH722HM/MH732HM)
 Hi-Fi Frequency Responce: 20 Hz ~ 20 k Hz (VC-MH722HM/MH732HM)
 Hi-Fi Distortion: 0.5% max. (VC-MH722HM/MH732HM)
 Hi-Fi Crosstalk (at 1kHz): 55 dB min. (VC-MH722HM/MH732HM)
 Accessories included: 75 ohm coaxial cable
 Operation manual
 Infrared remote control
 Battery

As part of our policy of continuous improvement, we reserve the right to alter design and specifications without notice.

Note: The antenna must correspond to the new standard DIN 45325 (IEC 169 - 2) for combined UHF/VHF antenna with 75 ohm connector.

2. DISASSEMBLY AND REASSEMBLY

2-1 DISASSEMBLY OF MAJOR BLOCKS

TOP CABINET : Remove 4 screws ①.

FRONT PANEL : Remove 2 screws ② and 7 clips ③.

SHUTTLE SWITCH: Remove 3 screws ⑪ and shuttle switch knob.

OPERATION (1) : Remove 1 hook ①. Remove 3 hooks

PWB AND PWB HOLDER ②.

F A/V PWB AND : Remove 1 screw ④ and ⑤.

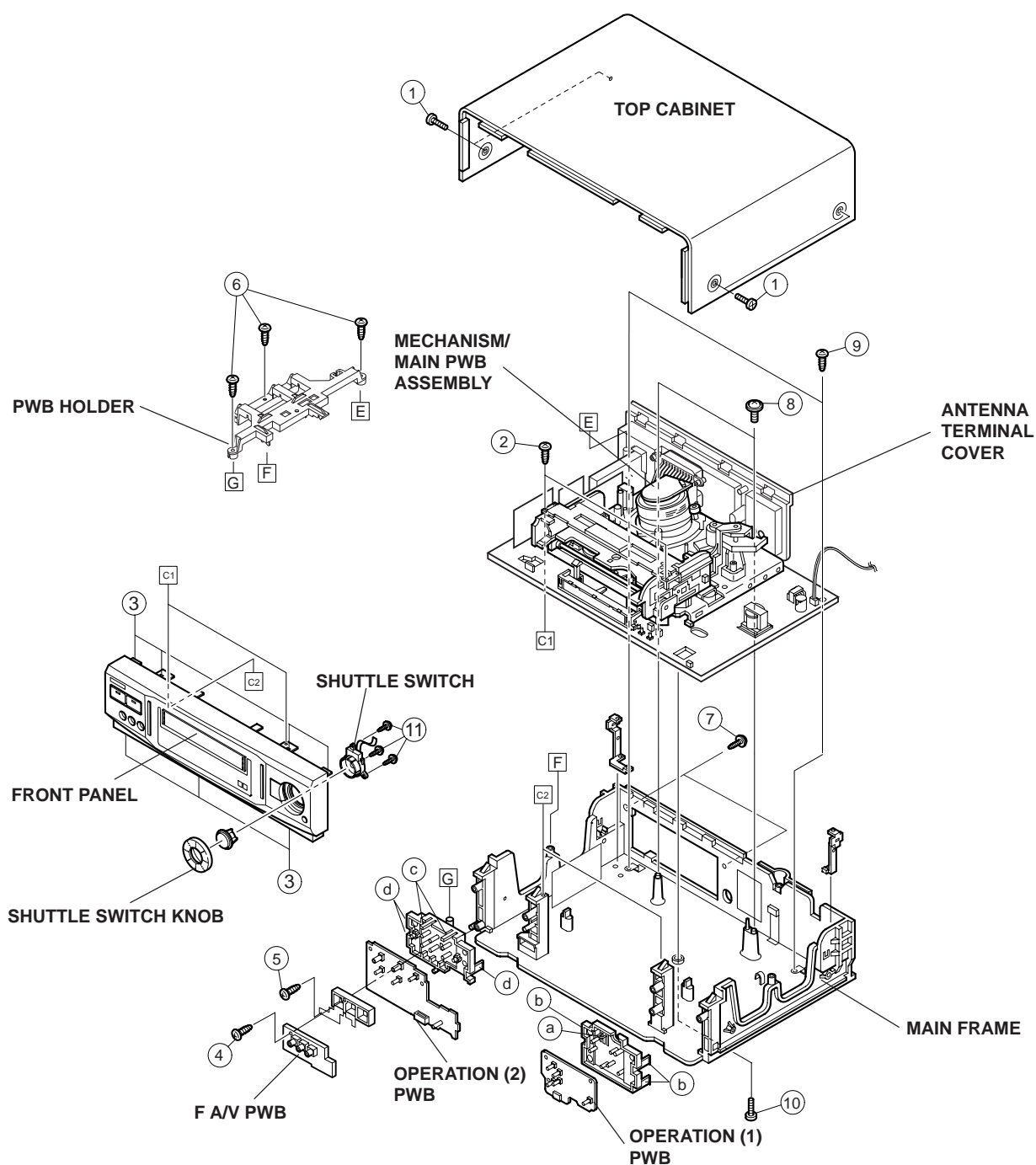
PWB HOLDER

OPERATION (2) : Remove 2 hooks ③ and 3 hooks ④.

PWB AND PWB HOLDER

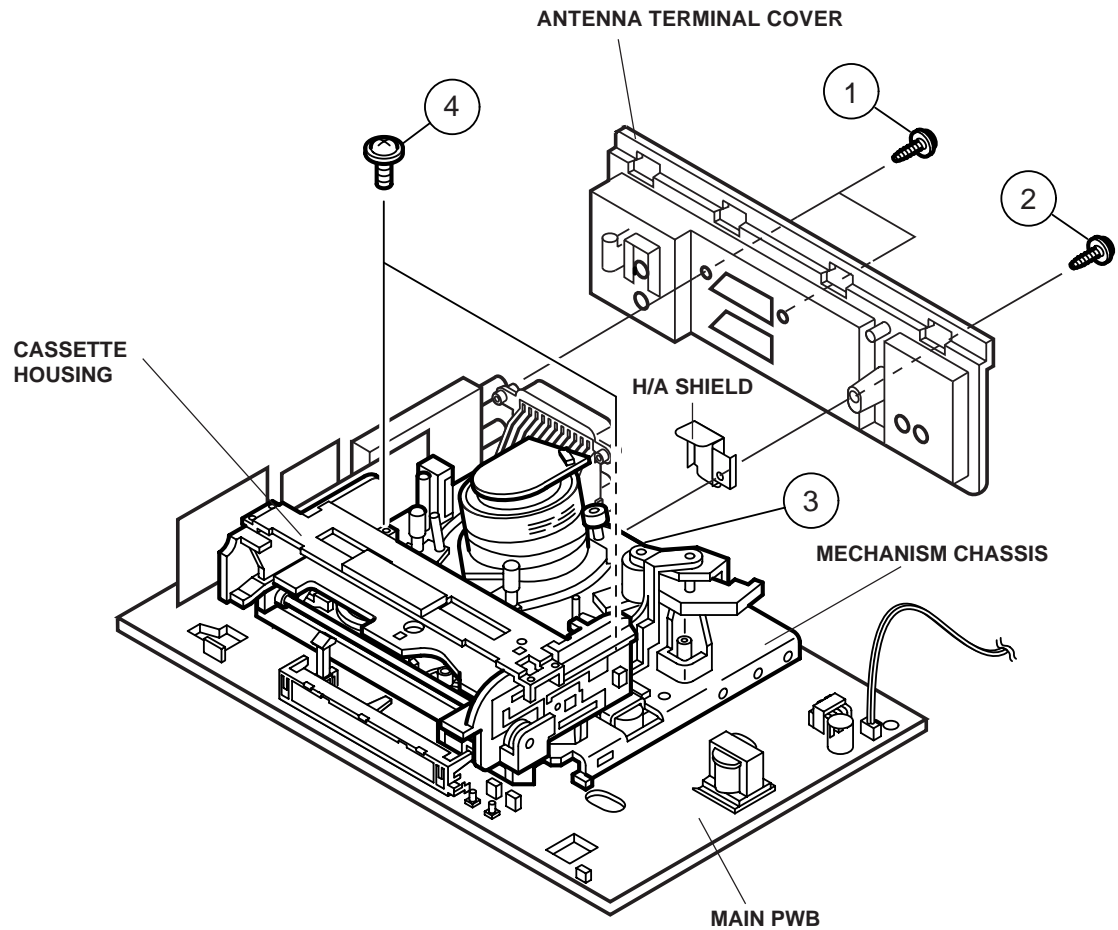
MAIN PWB/MECHANISM ASSEMBLY

: Remove 3 screws ⑥ PWB holder. Remove 2 screws ⑦, 2 screws ⑧, 2 screws ⑨ and 1 screw ⑩.



2-2 DISASSEMBLING THE MECHANISM/MAIN PWB ASSEMBLY

1. When removing the mechanism from the main PWB, remove 2 screws ① and 1 screw ② and H/A shield. Remove the antenna cover. Remove the FFC cable (AA, AD, AH) ③ which connecting the PWB and the mechanism. Take out vertically the mechanism so that it does not damage the adjacent parts.
2. Removing the mechanism and cassette housing. Remove 2 screws ④ fixing the cassette housing to the mechanism, and remove the cassette housing.



2-3 CARES WHEN REASSEMBLING

INSTALLING THE CASSETTE HOUSING

When the cassette housing is installed on the mechanism, the initial setting is essential condition.

There are two initial setting methods, namely electrical and mechanical.

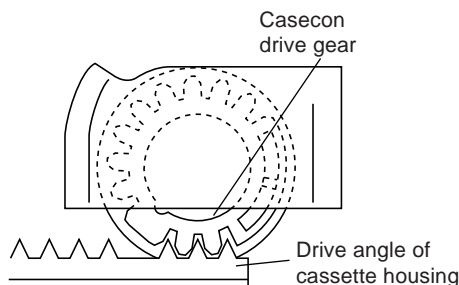
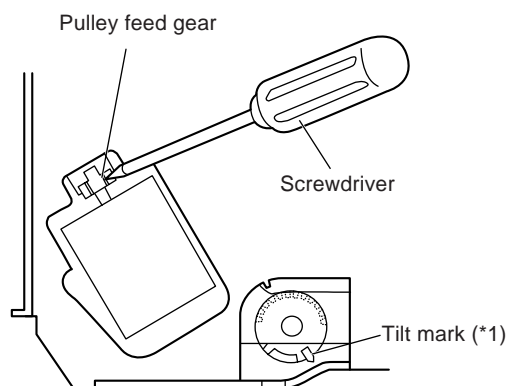
1. Electrical initial setting

So as to perform initial setting of mechanism execute the Step 1 of Installation of cassette housing. After ascertaining the return to the initial setting position (*1) install the

cassette housing. (Conditions: When mechanism and PWB have been installed)

2. Mechanical initial setting

Feed the pulley feed gear of loading motor with screw driver. After ascertaining the return to the initial set position (*1) install the cassette housing in the specified position. (This method is applied only for the mechanism.)

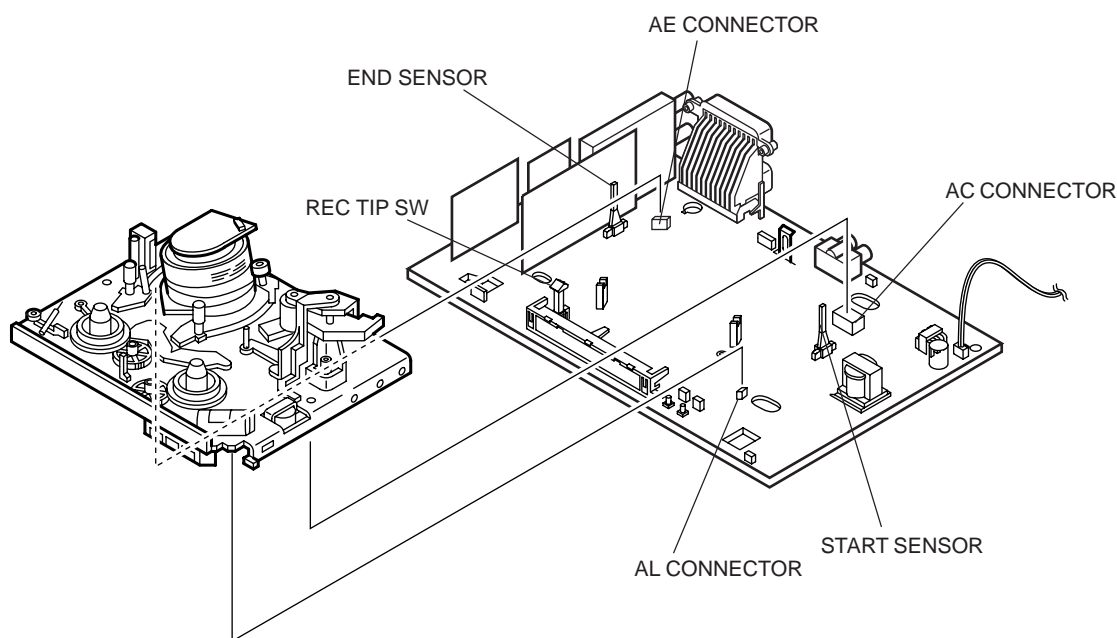


INSTALLING THE MECHANISM ON PWB

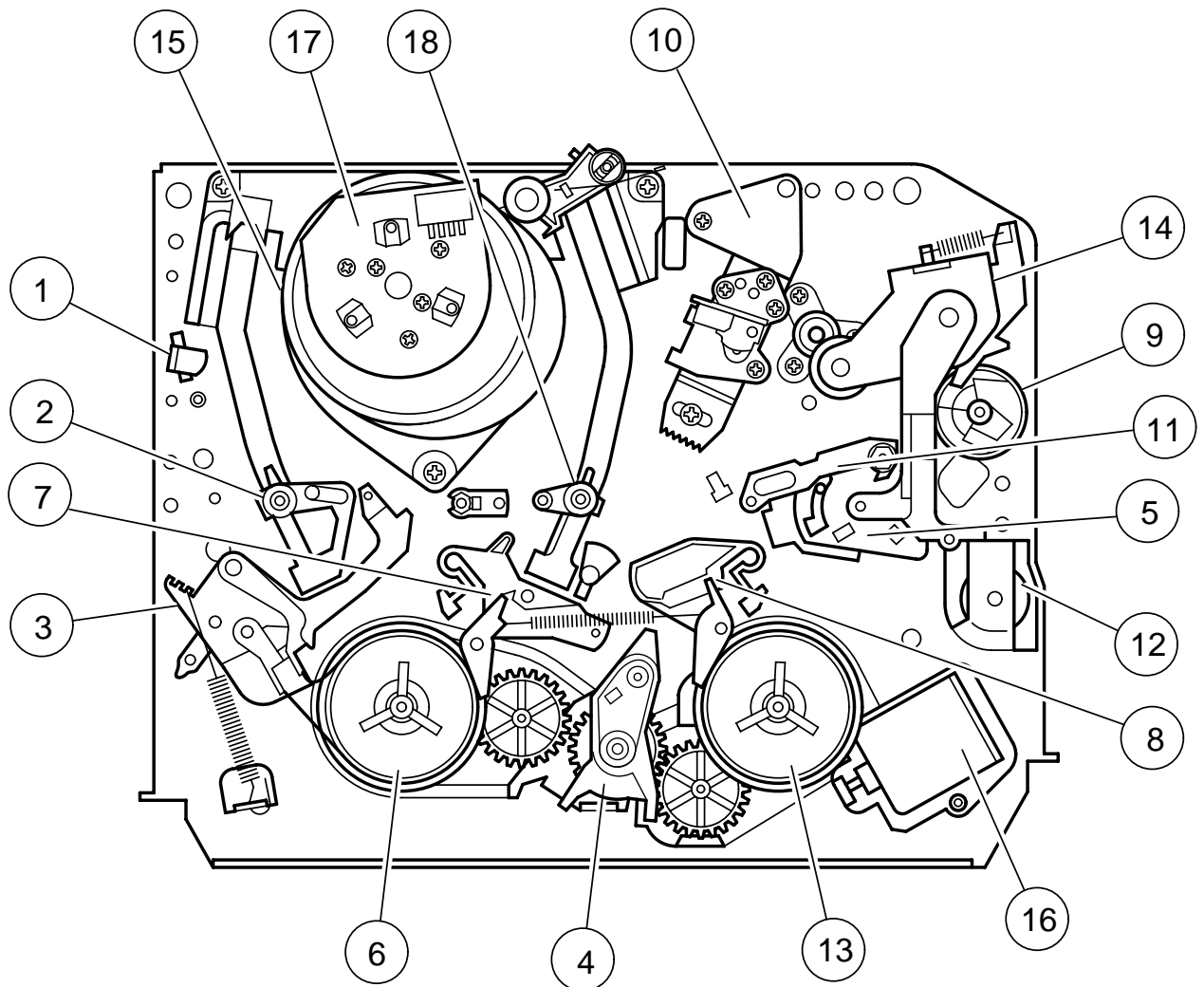
Lower vertically the mechanism, paying attention to the mechanism edge, and install the mechanism with due care so that the parts are not damaged. So as to fix the mechanism to the main PWB install two housings. (Fit the antenna cover to one of them. For other, fix the vicinity of loading motor and solder joint side of main PWB.) Connect again the FFC cable (AA-MH, AD-ME, AH-MZ) between the mechanism and the main PWB.

PARTS WHICH NEED PARTICULAR CARE

When installing the mechanism chassis on the PWB unit, take care so as to prevent deformation due to contact of mechanism chassis with REC TIP SW.

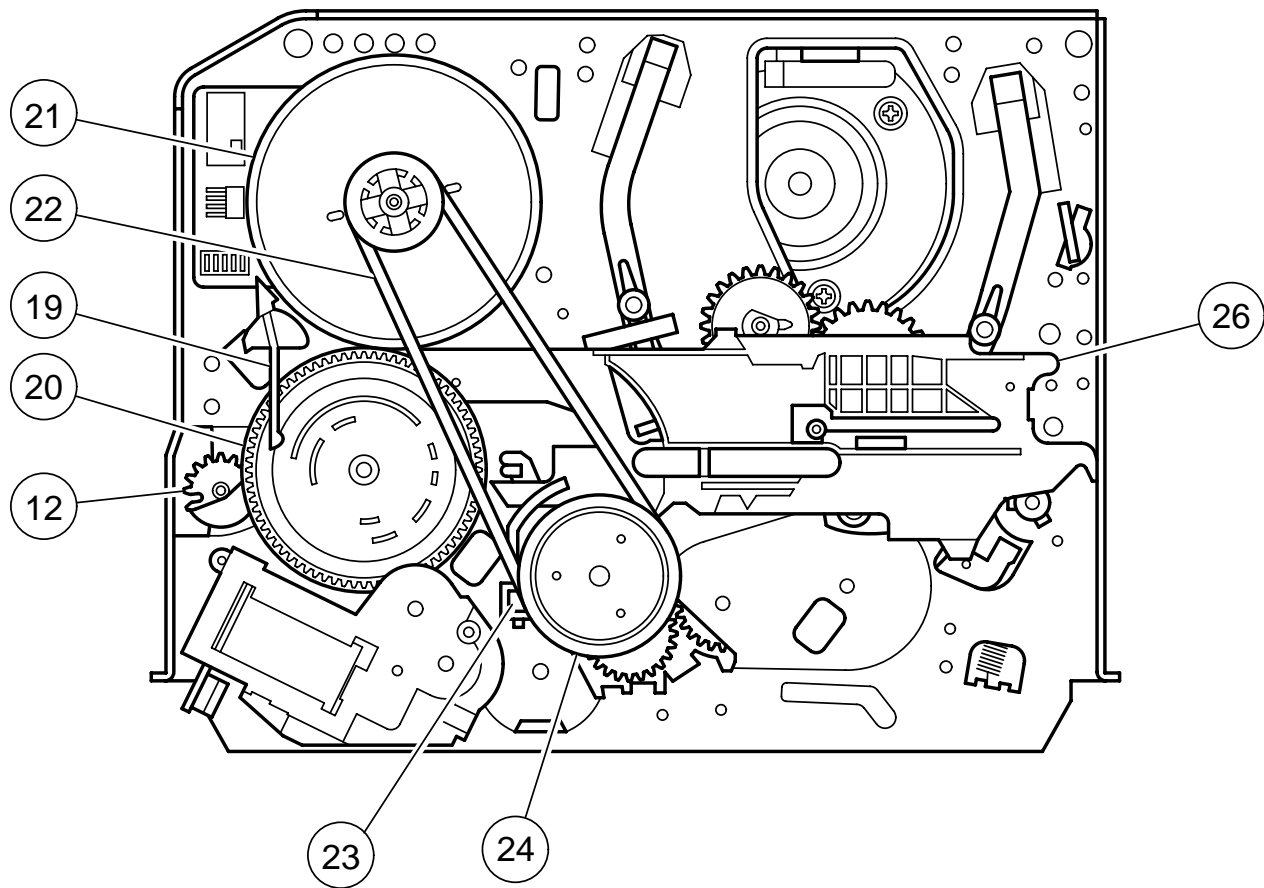


3. FUNCTION OF MAJOR MECHANICAL PARTS (TOP VIEW)



No.	Function	No.	Function
1	Full erase head	11	Reverse guide lever ass'y
2	Supply pole base ass'y	12	Casecon drive gear
3	Tension arm ass'y	13	Take-up reel disk
4	Idler wheel ass'y	14	Pinch roller lever ass'y
5	Pinch drive lever ass'y	15	Drum ass'y
6	Supply reel disk	16	Loading motor
7	Supply main brake ass'y	17	Drum motor
8	Take-up main brake ass'y	18	Take-up pole base ass'y
9	Pinch drive cam		
10	A/C Head ass'y		

FUNCTION OF MAJOR MECHANICAL PARTS (BOTTOM VIEW)









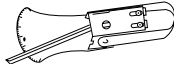

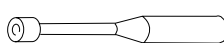




No.	Function	No.	Function
19	Slow brake	23	Clutch lever
20	Master cam	24	Limiter pulley ass'y
21	Capstan D.D. motor	12	Casecon drive gear
22	Reel belt	26	Shifter

4. ADJUSTMENT, REPLACEMENT AND ASSEMBLY OF MECHANICAL UNITS

The explanation given below relates to the on-site general service (field service) but it does not relate to the adjustment and replacement which need high-grade equipment, jigs and skill. For example, the drum assembling, replacement and adjustment service must be performed by the person who have finished the technical courses.

4-1 MECHANISM CONFIRMATION ADJUSTMENT JIG

So as to perform completely the mechanism adjustment prepare the following special jigs. So as to maintain the initial performance of the machine the maintenance and check are necessary. Utmost care must be taken so that the tape is not damaged. If adjustment needs any jig, be sure to use the required jig.

No.	Jig Item	Part No.	Code	Configuration	Remarks		
1.	Torque Cassette Meter	JiGVHT-063	CZ		This cassette torque meter is used for checking and adjusting the torque of take-up for measuring tape back tension.		
2.	Torque Gauge	JiGTG0090	CM		These Jigs are used for checking and adjusting the torque of take-up and supply reel disks.		
		JiGTG1200	CN				
3.	Torque Gauge Head	JiGTH0006	AW				
4.	Torque Driver	JiGTD1200	CB		When fixing any part to the threaded hole using resin with screw, use the jig. (Specified torque 5 kg)		
5.	Master Plane Jig and Reel Disk Height Adjusting Jig	JiGRH0002	BR		These Jigs are used for checking and adjusting the reel disk height.		
		JiGMP0001	BY				
6.	Tension Gauge	JiGSG2000	BS		There are two gauges used for the tension measurements, 300 g and 2.0kg.		
		JiGSG0300	BF				
7.	Pinch pressing force measuring jig	JiGADP003	BK		This Jig is used with the tension gauge. Rotary transformer clearance adjusting jig.		
9.	Reverse guide height adjusting box driver	JiGDRIVER11055	AR		This Jig is used for height adjustment of the reverse guide (for reverse guide height adjustment).		
10.	Alignment Tape	VROUBZFS	CK		Video	Audio	Track
		625 Monoscope			6kHz	35μm	
		625 Monoscope and Colour bar			6kHz and 1kHz	49μm	
11.	Guide roller height adjustment drive	JiGDRIVERH-4	AP		This screwdriver is used for adjusting the guide roller height.		
12.	X value adjustment gear type screw driver	JiGDRIVER-6	BM		For X value adjustment		
13.	Reverse Guide Height Adjusting Jig	JiGRVGH-F18	BU		This Jig is used for height adjustment of the reverse guide.		

MAINTENANCE CHECK ITEMS AND EXECUTION TIME

Perform the maintenance with the regular intervals as follows so as to maintain the quality of machine.

Maintained Parts	500 hrs.	1000 hrs.	1500 hrs.	2000 hrs.	Possible symptom encountered	Remarks
Guide roller ass'y	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lateral noises Head occasionally blocked	Abnormal rotation or significant vibration requires replacement.
Sup guide shaft	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Clean tape contact part with the specified cleaning liquid.
Reverse guide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Slant pole on pole base	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Full erase head	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	Colour and beating	Clean tape contact area with the specified cleaning liquid.
A/C head	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="radio"/>	Small sound or sound distortion	
Upper and lower drum ass'y	<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Poor S/N ratio, no colour Poor flatness of the envelope with alignment tape	
Capstan D.D. motor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No tape running, uneven colour	
Pinch roller	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No tape running, tape slack	Clean rubber and rubber contact area with the specified cleaning liquid.
Reel belt		<input type="checkbox"/>		<input type="radio"/>	No tape running, tape slack, no fast forward/re- wind motion	
Tension band ass'y				<input type="radio"/>	Screen swaying	
Loading motor				<input type="radio"/>	Cassette not loaded or unloaded	
Idler ass'y				<input type="radio"/>	No tape running, tape slack	
Limiter pulley		<input type="checkbox"/>		<input type="checkbox"/>		
Supply/take-up main brake levers				<input type="radio"/>	Tape slack	
AHC(Automatic head cleaner)		<input type="radio"/>		<input type="radio"/>		Replace the roller of the cleaner when it wears down. Just change the AHC roller assembly for new one.

NOTE: ☐ : Part replacement. ☐ : Cleaning : Apply grease
<Specified> Cleaning liquid Industrial ethyl alcohol

* This mechanism does not need electric adjustment with variable resistor. Check parts. If any deviation is found, clean or replace parts.

REMOVING AND INSTALLING THE CASSETTE HOUSING

• Removal

1. In the cassette removing mode, remove the cassette.
2. Unplug the power cord.
3. Remove in the following numerical order.
 - a) Remove two screws ①.
 - b) Slide and pull up the cassette housing control.

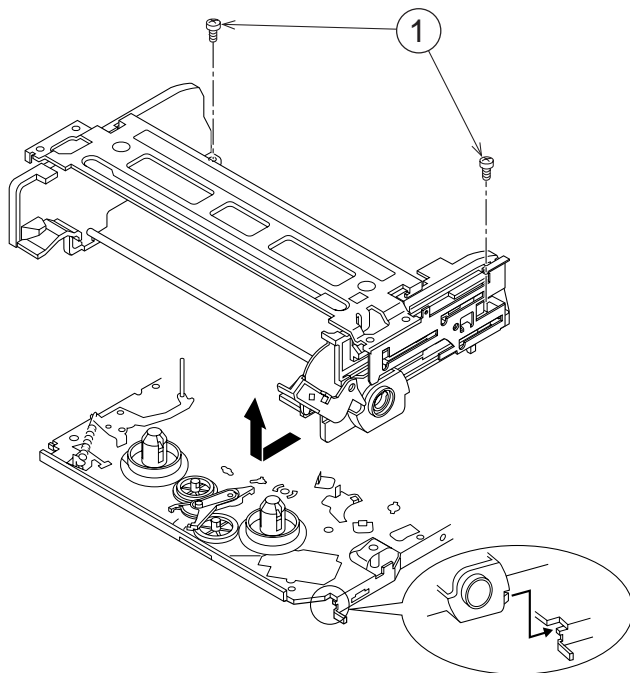


Figure 4-1.

• Reassembly

1. Before installing the cassette housing control, short-circuit TP801 provided at the center (when facing to the main PWB), press the eject button. The casecon drive gear turns and stops when the positioning mark appears. Engage two teeth of casecon drive gear with the three teeth of casecon drive angle gear, and set on the mechanism chassis as shown below.

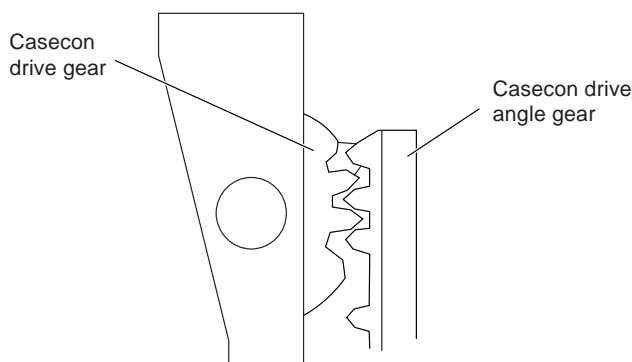


Figure 4-2.

2. Install in the reverse order of removal.

Notes:

1. When fitting the S/E sensor holder to the cassette controller frame L/R, take care.
2. Misengagement of teeth of casecon drive gear and drive angle gear causes malfunction. (The cassette cannot be set, load and ejection are repeated).
3. In the case when you use the magnet screw driver, never approach the magnet driver to the A/C head, FE head, and drum.
4. When installing or removing, take care so that the cassette housing control and tool do not contact the guide pin or drum.
5. After installing the cassette housing control once perform cassette loading operation.

TO RUN A TAPE WITHOUT THE CASSETTE HOUSING CONTROL ASSEMBLY

1. Remove the full-surface panel.
2. Short-circuit TP801.
3. Plug in the power cord.
4. Turn off the power switch.
(The pole bases move into U.L. position.)
5. Open the lid of a cassette tape by hand.
6. Hold the lid with two pieces of vinyl tape.
7. Set the cassette tape in the mechanism chassis.
8. Stabilize the cassette tape with a weight (500g) to prevent floating.
9. Turn on the power switch.
10. Perform running test.

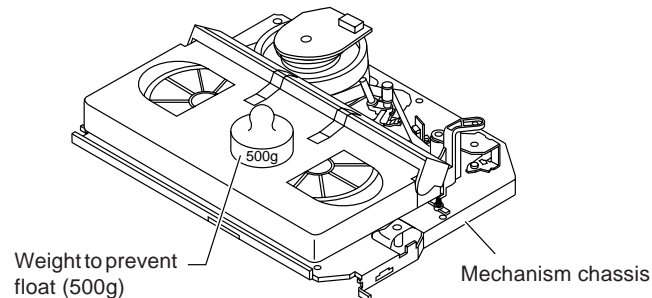


Figure 4-3.

Note:

The weight should not be more than 500g.

To take out the cassette tape.

1. Turn off the power switch.
2. Take out the cassette tape.

REEL DISK REPLACEMENT AND HEIGHT CHECK

• Removal

1. Remove the cassette housing control assembly.
2. Pull the tension band out of the tension arm ass'y.
3. Remove the Sup/Tu main brake ass'y.
4. Open the hook at the top of the reel disk, and remove the reel disk.

Note:

Take care so that the tension band ass'y and main brake ass'y (especially soft brake) are not deformed.

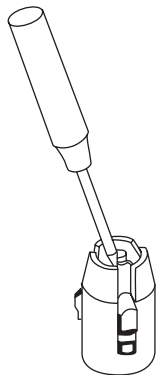
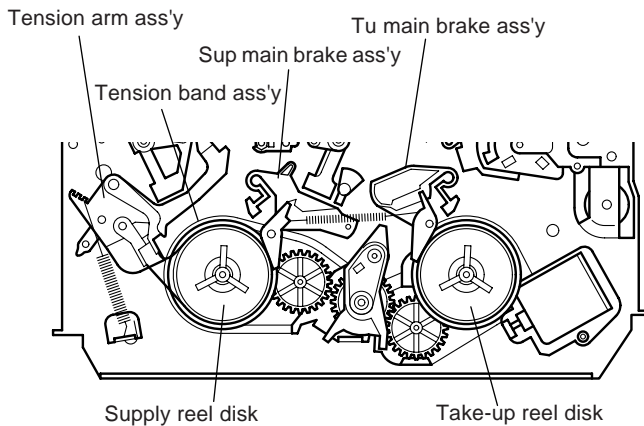


Figure 4-4.

Note:

When the tension band ass'y is pressed in the direction of the arrow for removal, the catch is hard to be deformed.

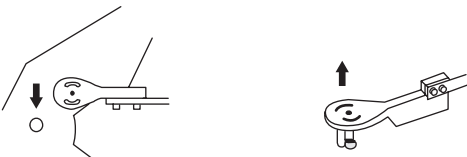


Figure 4-5.

• Reassembly (Supply reel disk)

1. Clean the reel disk shaft and apply grease (SC-141) to it.
2. Match the phases of reel disk and reel relay gear, and set the new reel disk.
3. After checking the reel disk height, wind the tension band ass'y around the reel disk, and insert into the hole of tension arm ass'y.

4. Assemble the Sup main brake ass'y.

Notes:

1. When installing the reel disk, take due care so that the tension band ass'y is not deformed and grease does not adhere.
2. Do not damage the Sup main brake ass'y. Be careful so that grease does not adhere to the brake surface.

• Reassembly (Take-up reel disk)

1. Clean the reel disk shaft and apply grease (SC-141) to it.
2. Align the phase of the reel disk to that of the reel relay gear and to install a new take-up reel disk onto the shaft.
3. Check the reel disk height and reassemble the take-up main brake ass'y.

Note:

1. Take care so that the Tu main brake ass'y is not damaged. Take care so that grease does not adhere the brake surface.
2. After reassembly, check the video search rewind back tension (see page 15), and check the brake torque (see page 17).

• Height checking and adjustment

Note:

1. Set the master plane with due care so that it does not contact the drum.
2. When putting the master plane, shift the reverse guide a little in the loading direction. Care must be taken since excessive shift results in damage.

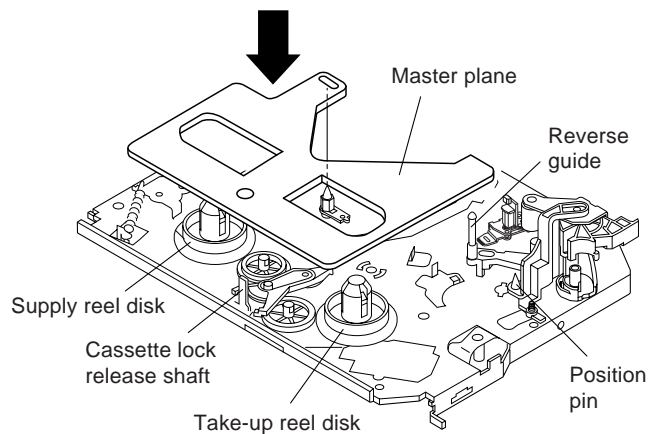


Figure 4-6.

Note:

- Check that the reel disk is lower than part A but higher than part B. If the height is not correct, readjust the reel disk height by changing the poly-slider washer under the reel disk.

Note:

Whenever replacing the reel disk, perform the height checking and adjustment.

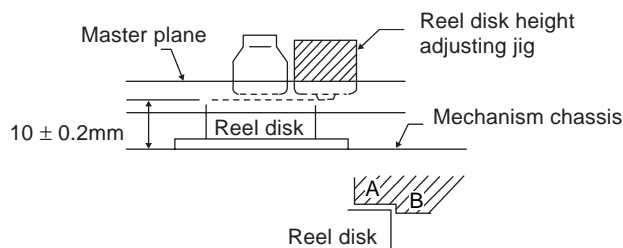


Figure 4-7.

CHECKING AND ADJUSTMENT OF TAKE-UP TORQUE IN FAST FORWARD MODE

- Remove the cassette housing control assembly.
- After short-circuiting TP801 provided at the center (facing to the main PWB), plug in the power cord.

- **Setting**

1. Set a torque gauge to zero on the scale. Place it on the take-up reel disk.
2. Press the FF button.
3. To calculate the remaining capacity of the play back mode, slowly rotate the supply reel disk, and then shift it into the forward mode.

- **Checking**

1. Turn the torque gauge slowly (one rotation every 2 to 3 seconds) by hand in the CW direction.
2. Make sure that the indication of torque gauge is not less than 30mN·m (306gf·cm).

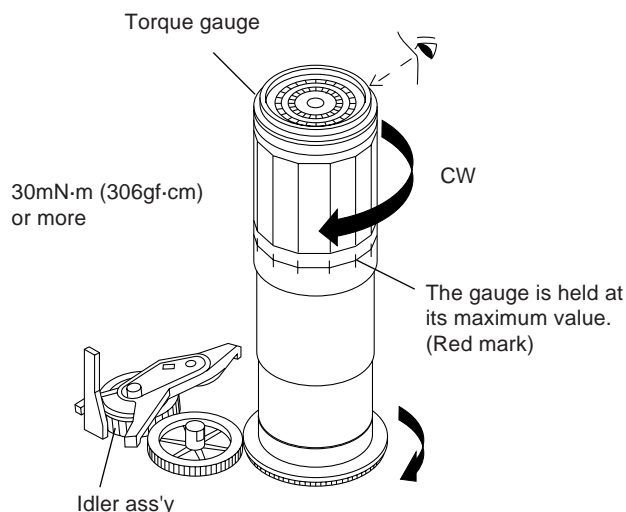


Figure 4-8.

- **Adjustment**

1. If the FF winding-up torque is less than the specified value, clean the capstan D.D. motor pulley, reel belt, and limiter pulley with cleaning liquid, and check again.
2. If the torque is less than the set value, replace the reel belt.

Notes:

1. Hold the torque gauge by hand so that it is not moved.
2. Do not keep the reel disk in lock state. Do not allow long-time measurement.

CHECKING AND ADJUSTMENT OF TAKE-UP TORQUE IN REWIND MODE

- Remove the cassette housing control assembly.
- After short-circuiting TP801 provided at the center (facing to the main PWB), plug in the power cord.

- **Setting**

1. Set a torque gauge to zero on the scale. Place it on the supply reel disk.
2. Press the rewind button.
3. To calculate the remaining capacity, slowly rotate the take-up reel disk, and then shift it into the rewind mode.

- **Checking**

1. Turn the torque gauge slowly (one rotation every 2 to 3 seconds) by hand in the CCW direction.
2. Make sure that the indication of torque gauge is not less than 30mN·m (306gf·cm).

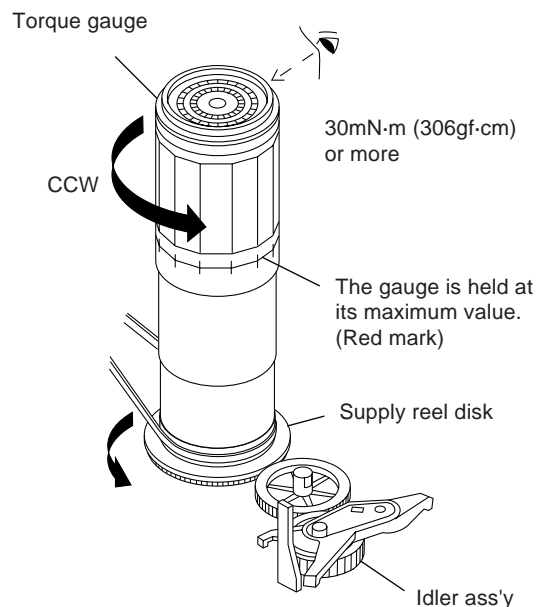


Figure 4-9.

- **Adjustment**

1. If the rewind winding-up torque is less than the specified value, clean the capstan D.D. motor pulley, drive belt, and limiter pulley with cleaning liquid, rewind again, and check the winding-up torque.
2. If the winding-up torque is still out of range, replace the drive belt.

Notes:

1. Hold the torque gauge by hand so that it is not moved.
2. Do not keep the reel disk in lock state. Do not allow long-time measurement.

CHECKING AND ADJUSTMENT OF TAKE-UP TORQUE IN RECORD/PLAYBACK MODE

- Remove the cassette housing control assembly.
- After short-circuiting TP801 provided at the center (facing to the main PWB), plug in the power cord.
- Turn off the power switch.
- Open the cassette torque meter lid, and fix it with tape.
- Load the cassette torque meter into the unit.
- Put the weight (500g) on the cassette torque meter.
- Turn on the power switch.
- Press the REC button, and set LP picture record mode.

Set value LP $6.9 \pm 2.5 \text{ mN} \cdot \text{m}$ ($70 \pm 25 \text{ gf} \cdot \text{cm}$)

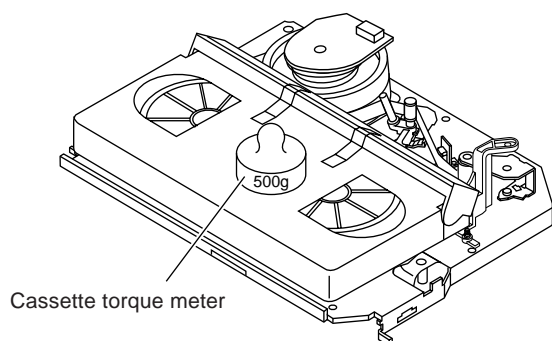


Figure 4-10.

- **Checking**

1. Make sure that value is within the setting $6.9 \pm 2.5 \text{ mN} \cdot \text{m}$ ($70 \pm 25 \text{ gf} \cdot \text{cm}$).
2. The winding-up torque fluctuates due to variation of rotation torque of limiter pulley ass'y. Read the center value of fluctuation as setting.
3. Set the LP record mode and make sure that the winding-up torque is within setting.

- **Adjustment**

If the playback winding-up torque is not within the setting, replace the limiter pulley assembly.

Note:

When the torque cassette is set, put a weight (500g) to prevent rise.

When the cassette torque meter is taken out.

Turn off the power switch.

CHECKING AND ADJUSTMENT OF TAKE-UP TORQUE IN VIDEO SEARCH REWIND MODE

- Remove the cassette housing control assembly.
- After short-circuiting TP801 provided at the center (facing to the main PWB), plug in the power cord.
- **Setting**
Press the playback button and rewind button to set the video search rewinding mode.

- **Checking**

Place the torque gauge on the supply reel disk, and turn it counterclockwise very slowly (one rotation every 1 to 2 seconds) and check that the torque is within the set value $14.0 \pm 3.9 \text{ mN} \cdot \text{m}$. ($144 \pm 40 \text{ gf} \cdot \text{cm}$)

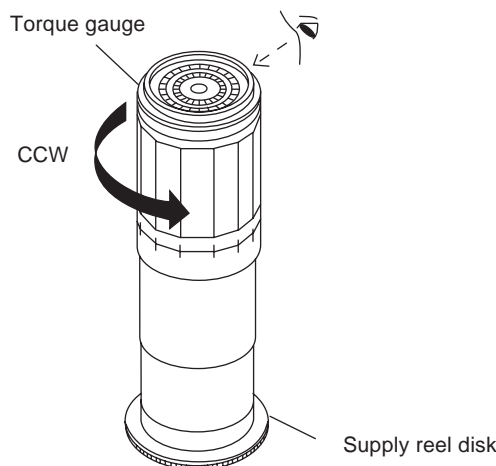


Figure 4-11.

Note:

Surely put the torque gauge on the reel disk to measure. If the torque gauge is raised, accurate measurement is impossible.

- **Adjustment**

If the rewinding playback winding-up torque is not within the setting, replace the limiter pulley assembly.

Note:

The winding-up torque fluctuates due to variation of rotation torque of supply reel disk. Read the center value of fluctuation as setting.

CHECKING THE VIDEO SEARCH REWIND BACK TENSION

- Remove the cassette housing control assembly.
- After short-circuiting TP801 provided at the center (facing to the main PWB), plug in the power cord.
- **Checking**
 1. After pressing the play button, press the rewind button, and set the video search rewind mode.
 2. Place the torque gauge on the take-up reel disk, and turn it counterclockwise very slowly (one rotation every 2 to 3 seconds) and check that the torque is within the set value $3.4 \pm 1.5 \text{ mN} \cdot \text{m}$ ($35 \pm 15 \text{ gf} \cdot \text{cm}$).

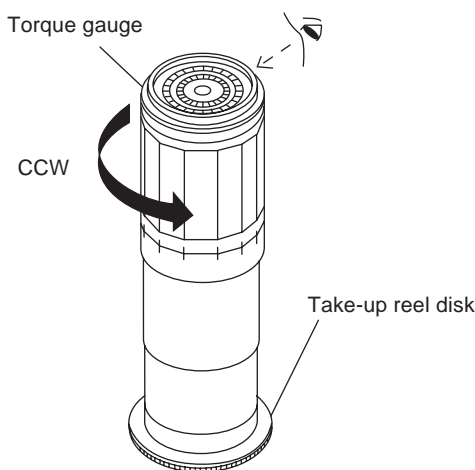


Figure 4-12.

Notes:

Set the torque gauge securely on the take-up reel disk. If it is not secure, the measurement will be incorrect.

CHECKING THE PINCH ROLLER PRESSURE

- Remove the cassette housing control assembly.
- After short-circuiting TP801 provided at the center (facing to the main PWB), plug in the power cord.
- **Checking**
Press the play button to set the playback mode.

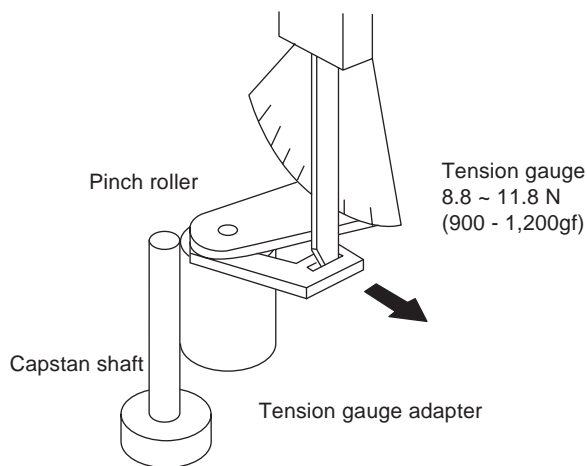


Figure 4-13.

1. Detach the pinch roller from the capstan shaft. Do not separate excessively. Or the pinch lever and pinch double action lever may disengage.
2. Engage the tension gauge adapter with the pinch roller shaft, and pull in the arrow direction.
3. Gradually return the pinch roller, and measure the pulling force when the pinch roller contacts the capstan shaft.
4. Make sure that the measured value is within setting 8.8 to 11.8 N (900 to 1,200gf).

CHECKING AND ADJUSTMENT OF TENSION POLE POSITION

- Remove the cassette housing control assembly.
- After short-circuiting TP801 provided at the center (facing to the main PWB), plug in the power cord.
- **Setting**
 1. Turn off the power switch.
 2. Open the cassette tape (E-180), and fix with tape.
 3. Set the cassette tape in loading state.
 4. Put the weight (500g) on the cassette tape.
 5. Turn on the power switch.
 6. Make the adjustment with the beginning of a E-180 tape.

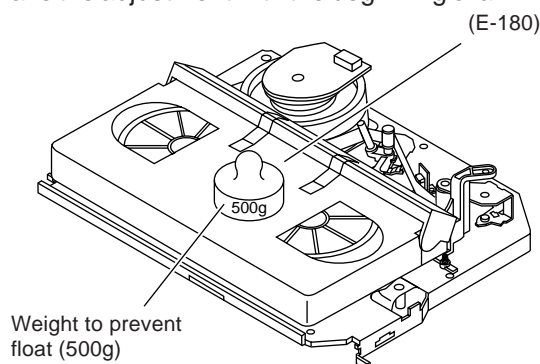
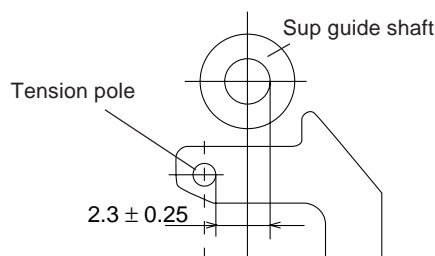


Figure 4-14.

- **Checking**
 1. Set a cassette tape, push the REC button to place the unit in the SP record mode. Now check the tension pole position.

2. Visually check to see if the right edge of the tension pole is within the 2.3 ± 0.25 from the right edge of the Sup guide shaft.



Make the adjustment with the beginning of a T-120 tape.

Figure 4-15.

At left side from the center line

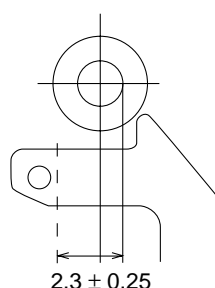


Figure 4-16.

Insert the slotted screwdriver in the tension pole adjuster, and rotate counterclockwise.

At right side from the center line

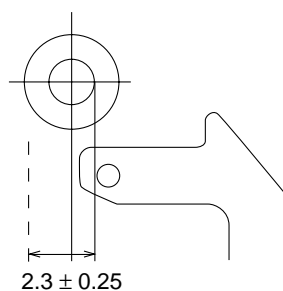


Figure 4-17.

Insert the slotted screwdriver in the tension pole adjuster, and rotate clockwise.

Tension pole adjuster adjusting range

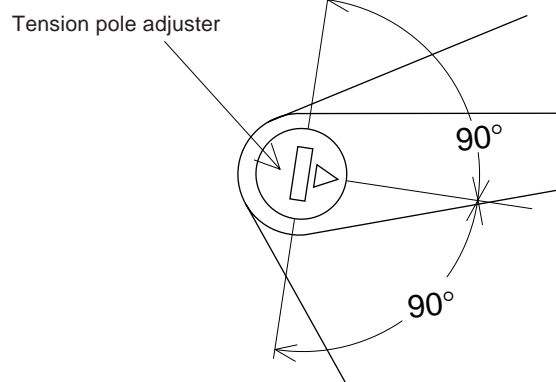


Figure 4-18.

Adjust so that the delta mark of tension pole adjuster is within 90° range (left, right).

CHECKING AND ADJUSTMENT OF RECORD/PLAYBACK BACK TENSION

- Remove the cassette housing control assembly.
- After short-circuiting TP801 provided at the center (facing to the main PWB), plug in the power cord.
- **Setting**
 1. Turn off the power switch.
 2. Open the torque cassette meter and fix with tape.
 3. Set the cassette tape in loading state.
 4. Put the weight (500g) on the cassette torque meter.
 5. Turn on the power switch.

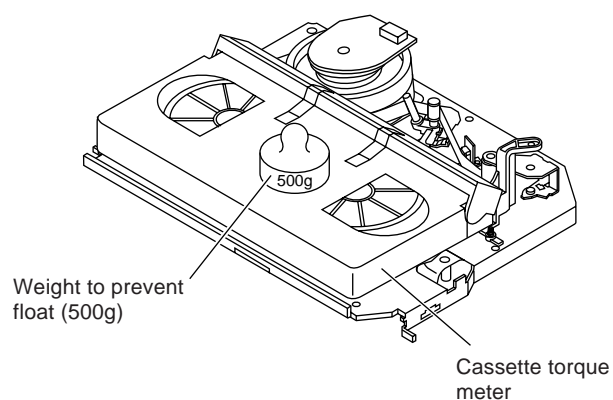


Figure 4-19.

- **Checking**
 1. Push the REC button to place the unit in the SP record mode.
 2. At this time ascertain that the back tension is within the setting (36.5 to 52g-cm) by seeing the indication of torque cassette meter.

- **Adjustment**

1. If the indication of torque cassette meter is lower than the setting, shift the tension spring engagement to the part A.
2. If the indication of torque cassette meter is higher than the setting, shift the tension spring engagement to the part B.

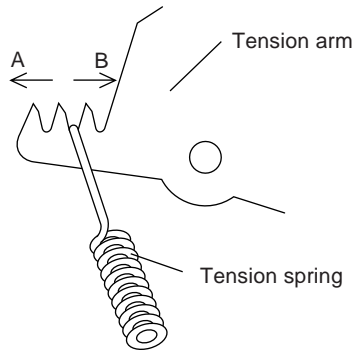
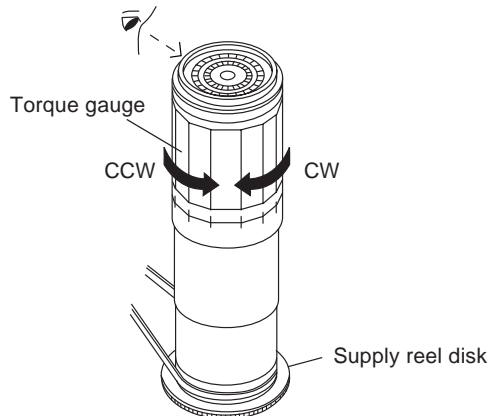


Figure 4-20.

CHECKING THE BRAKE TORQUE

- **Checking the brake torque at the supply side**



CCW:	2.9~9.8mN·m (30~100gf·cm)
CW:	4.9~13.7mN·m (50~140gf·cm)

Figure 4-21.

- **Remove the cassette housing control assembly.**

- **After short-circuiting TP801 provided at the center (facing to the main PWB), plug in the power cord.**

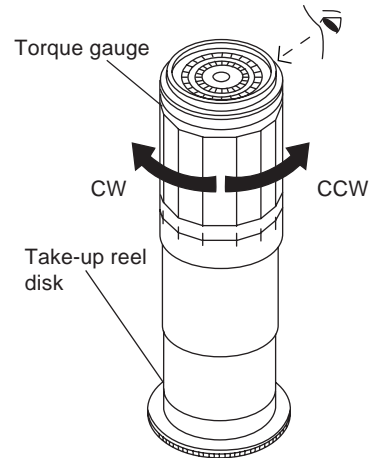
- **Setting**

1. Set a torque gauge to zero on the scale. Place it on the supply reel disk.
2. Switch from the FF mode to the STOP mode.
3. Disconnect the power cord.

- **Checking**

Turn the torque gauge at a rate of about one turn/2 sec in the CW direction/CCW direction with respect to the supply reel disk so that the reel disk and torque gauge pointer rotate at equal speed, and make sure that the value is within the setting (CW direction: 4.9 to 13.7mN·m (50 to 140gf·cm); CCW direction: 2.9 to 9.8mN·m (30 to 100gf·cm)).

- **Checking the brake torque at the take-up side**



CCW:	4.9~13.7mN·m (50~140gf·cm)
CW:	3.9~10.8mN·m (40~110gf·cm)

Figure 4-22.

- **Remove the cassette housing control assembly.**

- **After short-circuiting TP801 provided at the center (facing to the main PWB), plug in the power cord.**

- **Setting**

1. Switch from the FF mode to the STOP mode.
2. Disconnect the power cord.
3. Set a torque gauge to zero on the scale. Place it on the take-up reel disk.

- **Checking**

1. Turn the torque gauge at a rate of about one turn/2 sec in the CCW direction/CW direction so that the reel disk and torque gauge pointer rotates at equal speed and make sure that the value is within the setting (CCW direction: 4.9 to 13.7mN·m (50 to 140gf·cm), CW direction: 3.9 to 10.8 mN·m (40 to 110gf·cm)).

2. Adjustment of the brake torque at the supply side and the take-up side

- Unless the supply side brake torque or take-up side brake torque is within the setting, clean the felt surface of reel disk (supply, take-up) brake lever, check again the brake torque.

- If value cannot be set within the setting yet, replace the main brake ass'y or main brake spring.

REPLACEMENT OF A/C (Audio/Control) HEAD

1. Remove the cassette housing control assembly.
2. In unloading state unplug the power cord.

• Removal

1. Remove the screws ① ② ③, Azimuth screw, Tilt screw.
2. Unsolder the PWB fitted to the A/C head.

Notes:

1. When replacing, never touch the head. If you touched, clean with the cleaning liquid.
2. When removing the screw ③, take care so that the spring may out.

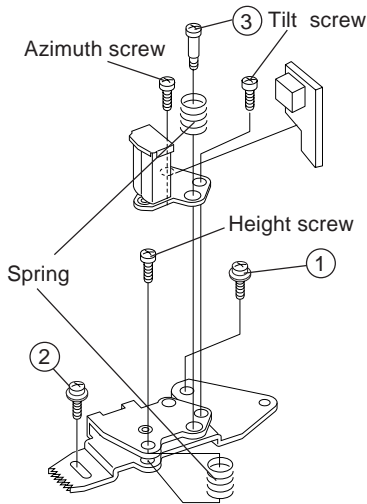


Figure 4-23.

• Replacement

1. Solder the removed PWB to the new head assembly.
2. Adjust the height from the A/C head plate (lower surface) to the A/C head base to 10.8mm with slide calipers. (3 places of azimuth screw section, tilt screw section and height screw section) (See the figure below.)

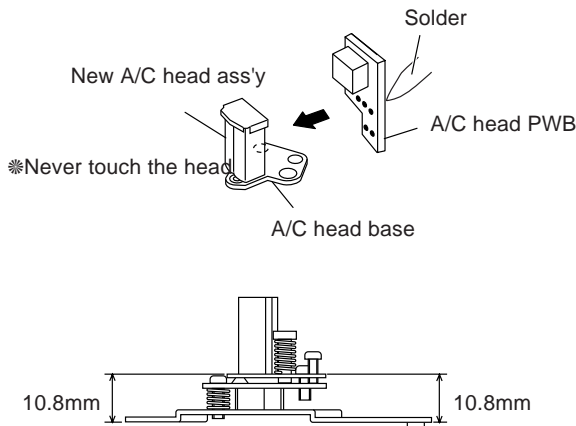


Figure 4-24.

3. Align the left end of gear of A/C head plate with the punched mark of chassis, tentatively tighten the screws ① and ② so as to ensure smooth motion of A/C head plate. Tentative tightening torque must be 0.15 to 0.20 N·m (1.5 to 2.0kgf·cm).

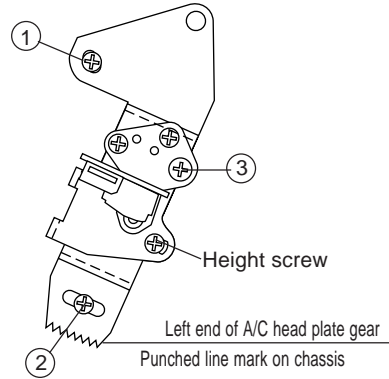


Figure 4-25.

Note:

1. If the screws ① and ② are tightened tentatively too loose, the azimuth and height of A/C head may change when they are finally tightened. Therefore care must be taken.
2. After completion of A/C head be sure to adjust tape running. (Execute the running adjustment by the method described in Page 20, 21.)

A/C HEAD HEIGHT ROUGH ADJUSTMENT

• Setting

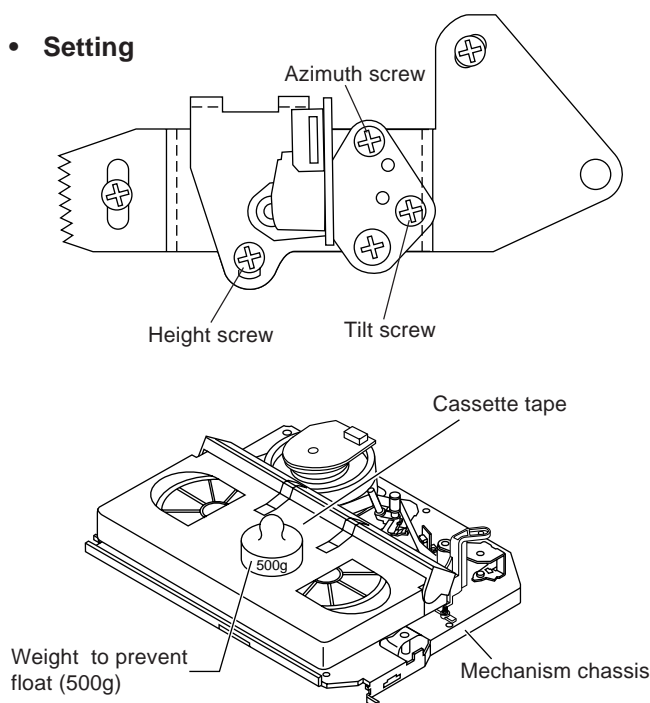


Figure 4-26.

1. Set the cassette tape in the unit.
2. Press the PLAY button to put the unit in the playback mode.
3. Roughly adjust the height of the A/C head by turning the height screw until the tape is in the position shown below.

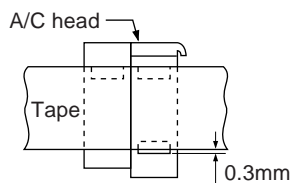


Figure 4-27.

• Adjustment

Adjust the height screw visually so that the control head is visible 0.3mm below the bottom of the tape.

HEIGHT ADJUSTMENT OF REVERSE GUIDE

1. Adjust the height from the mechanism chassis to the reverse guide lower flange to 13.38 mm, using the reverse guide height adjustment jig, in tape loading state. (Refer to Figure 4-28 (a) (b).)

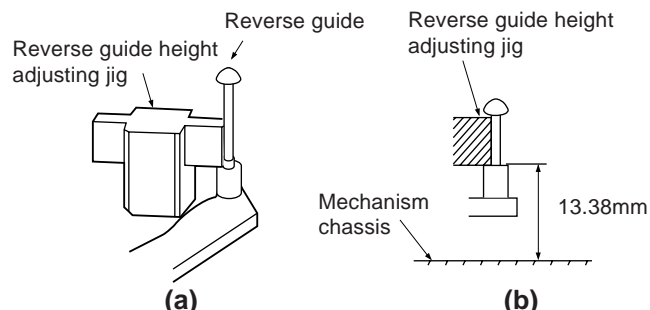


Figure 4-28.

2. Rotate counterclockwise the reverse guide height adjustment nut 1/10 turn. (For height adjustment use the reverse guide height adjustment box driver (JiGDRIVER 11055)).

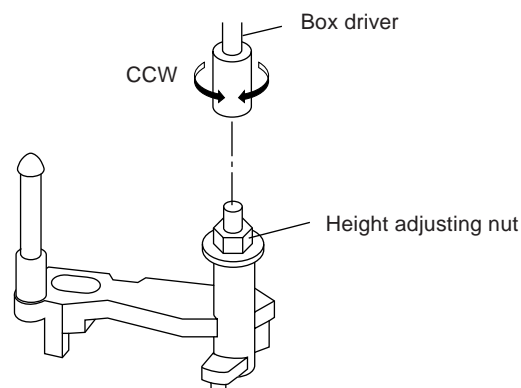
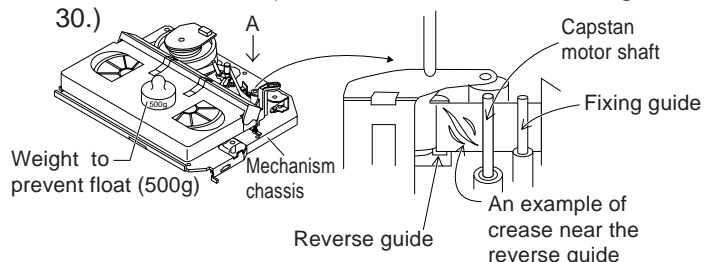


Figure 4-29.

3. Set the tape, and check for tape crease near the reverse guide in the playback mode. If crease is found, turn the reverse guide adjustment nut to remove crease. (As for crease check refer to Figure 4-30.)



* Check for crease from the A direction.

Figure 4-30.

ADJUSTMENT OF TAPE DRIVE TRAIN

1. Tape run rough adjustment

- ① Remove the cassette housing control assembly.
- ② After shortcircuiting TP801 provided at the center (facing to the main PWB), plug in the power cord.
- ③ Check and adjust the position of the tension pole. (See page 15.)
- ④ Check and adjust the video search rewind back tension. (See page 15.)
- ⑤ Connect the oscilloscope to the test point for PB CHROMA envelope output (TP201). Set the synchronism of the oscilloscope to EXT. The PB CHROMA signal is to be triggered by the head switching pulse (TP202).
- ⑥ Set the alignment tape (VROCPSV) to play. (Put a 500g weight on the cassette tape to prevent lift of cassette tape.)

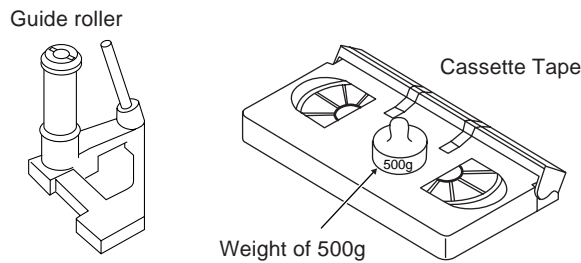


Figure 4-31.

- ⑦ Press the tracking button (+), (-) and change the envelope waveform from max to min and from min to max. At this time make sure that the envelope waveform changes nearly parallel.
- ⑧ Unless the envelope waveform changes nearly parallel, adjust the height of supply side and take-up side guide roller so that the envelope waveform changes nearly parallel. (For envelop adjustment procedure refer to Figure 4-35.)
- ⑨ Turn the tilt screw to remove the tape crease at the fixing guide flange. Playback the tape and check for tape crease at the fixing guide flange.
 - (1) If there is no tape crease
Turn the tilt screw clockwise so that tape crease appears once at the flange, and then return the tilt screw so that the crease disappears.
 - (2) If there is tape crease
Turn counterclockwise the tilt screw so that the tape crease disappears.
(Reference) If the tilt screw is turned clockwise crease appears at the lower flange.

Notes:

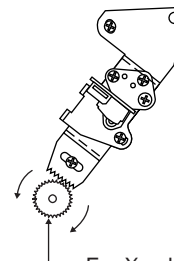
1. Previously set the tracking control in the center position, and adjust the envelop waveform to maximum with X value adjustment nut. Thereby the tape run rough adjustment is facilitated.
2. Especially the outlet side envelope waveform must have higher flatness.



Figure 4-32.

2. Adjustment of A/C head height and azimuth

- ① Perform the initial setting of A/C head position by the method stated in "Page 18 Replacement 3".
- ② Connect the oscilloscope to the audio output terminal.
- ③ Using the alignment tape in which 1 kHz linear audio signal has been recorded, adjust the height screw so as to get max audio output.
- ④ Using the alignment tape in which 6 kHz linear audio signal has been recorded, adjust the azimuth screw so as to get max audio output.
- ⑤ Repeat the above adjustment steps ③ and ④ a couple of times. Finally take the step ④ again.



For X value adjustment
Adjust the X value, turning the gear-type screwdriver.

Figure 4-33.

3. Tape run adjustment

- ① Connect the oscilloscope to PB CHROMA envelope output test point, set oscilloscope sync to EXT, trigger-input the PB CHROMA signal (head switching pulse).
- ② Rough adjustment of X value
Tentatively fix A/C head arm screws ① and ② by the method described in Page 18 "Replacement 3". Playback the alignment tape (VROCPSV) and shortcircuit TP802. As a result the auto-tracking is automatically cancelled, so that the X value adjustment mode is set.
Move the A/C head with the X value adjustment gear driver (JiGDRIVER-6) by the method shown in Figure 4-33, and adjust the A/C head so as to get the maximum envelope waveform. (Note: When the A/C head is adjusted, adjust so that the maximum envelop waveform is obtained nearest the position of initial setting made in Page 18.)

- ③ Next, change the alignment tape to VROCPSV(VC-MH742HM) or VROUBZFS(VC-M332HM) to playback. Press the tracking button (+), (-) and change the envelope waveform from max to min and from min to max. At this time adjust the height of supply and take-up side guide roller with the adjustment driver (JiGDRIVERH-4) so that the envelope waveform changes nearly parallel.
- ④ If the tape is lifted or sunk from the helical lead surface, the PB CHROMA envelope waveform appears as shown in Figure 4-35.
- ⑤ Press the tracking button (+), (-) and make sure that the envelope waveform changes nearly parallel.
- ⑥ Finally check tape crease near the reverse guide. If tape crease is found, remove it as stated in Page 19 "HEIGHT ADJUSTMENT OF REVERSE GUIDE" item 3.

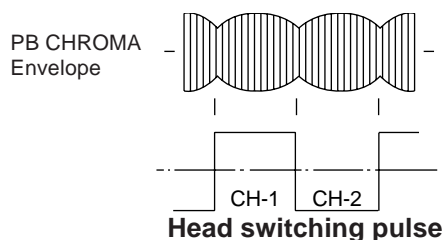


Figure 4-34.

4. A/C head X value adjustment

- ① Tentatively fix A/C head arm screws ① and ② by the method described in Page 18 "Replacement 3".
- ② Playback the alignment tape VROCPSV(VC-MH742HM) or VROUBZFS(VC-M332HM), and shortcircuit TP802. As a result the auto-tracking is automatically cancelled, so that the X value adjustment mode is set.

	When the tape is above the helical lead.		When the tape is below the helical lead.	
	Supply side	Take-up side	Supply side	Take-up side
Adjustment	Supply side guide roller rotated in clockwise direction (lowers guide roller) to flatten envelope.	Take-up side guide roller rotated in clockwise direction (lowers guide roller) to flatten envelope.	Supply side guide roller rotated in counterclockwise direction (raises guide roller) to make the tape float above the helical lead. The supply side guide roller is then rotated in the clockwise direction to flatten the envelope.	Take-up side guide roller rotated in counterclockwise direction (raises guide roller) to make the tape float above the helical lead. The take-up side guide roller is then rotated in the clockwise direction to flatten the envelope.

Figure 4-35.

- ③ Move the A/C head with the X value adjustment gear driver by the method shown in Figure 4-33, and adjust the A/C head so as to get the maximum envelope waveform. (Note: At this time adjust so as to get the maximum envelope waveform nearest the A/C head position which has been set in case of X value rough adjustment as stated in Page 20, 3- ②.)
- ④ Tighten finally the screws ① and ②. Be sure to tighten at first the screw ① and then the screw ②. Final tightening torque is 0.6N·m (If the screw ② is tightened first, the X value may deviate.)
- ⑤ Adjust the playback switching point (Refer to the electric adjustment method.)
- ⑥ Playback the self-picture-recorded tape, and check the flatness of envelope waveform and sound.

Notes:

When the A/C head X value adjustment is performed, be sure to perform at first X value rough adjustment (refer to Page 20, 3- ②).

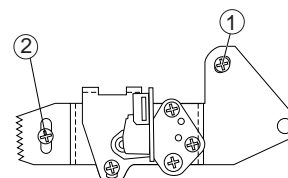


Figure 4-36.

REPLACEMENT OF THE CAPSTAN D.D. (DIRECT DRIVE) MOTOR

- Remove the mechanism from the main PWB (refer to Page 5 item 1. When removing the mechanism from the main PWB").

• Removal (Follow the order of indicated numbers.)

1. Remove the reel belt ①.
2. Remove the three screws ②.

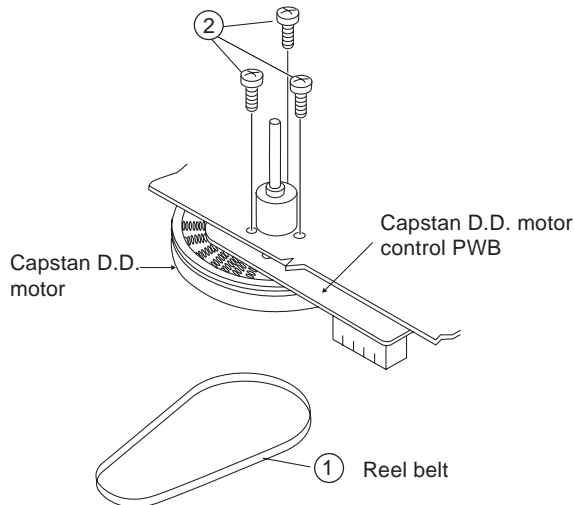


Figure 4-37.

• Reassembly

1. Taking care so that the capstan shaft does not contact the mechanism chassis, set its position on the mechanism chassis, and then install with the three screws.
2. Install the reel belt.

Notes:

1. After installing the capstan D.D. motor, be sure to rotate the capstan D.D. motor and check the movement.
2. Set the tape, and check for the tape crease near the reverse guide in the playback mode. Adjust the A/C head and azimuth as stated in Page 20 Replacement 2. If crease is found, adjust as stated in Page 19 "HEIGHT ADJUSTMENT OF REVERSE GUIDE".

REPLACEMENT OF DRUM D.D. MOTOR

1. Set the ejection mode.
2. Withdraw the main power plug from the socket.

• Removal (Perform in numerical order.)

1. Disconnect the FFC cable ①.
2. Unscrew the D.D. stator assembly fixing screws ②.
3. Take out the D.D. stator assembly ③.
4. Unscrew the D.D. rotor assembly fixing screws ④.
5. Take out the D.D. rotor assembly ⑤.

Notes:

1. In removing the D.D. stator assembly, part of the drum earth spring pops out of the pre-load collar. Be careful not to lose it.
2. Install, so that the D.D. rotor ass'y and upper drum ass'y mounting direction check holes align. (Align the upper drum dent with the rotor hole.)
3. Be careful not to damage the upper drum or the video head.
4. Protect the hole elements from shock due to contact with D.D. stator or D.D. rotor ass'y.
5. After installation adjust the playback switching point for adjustment of servo circuit.

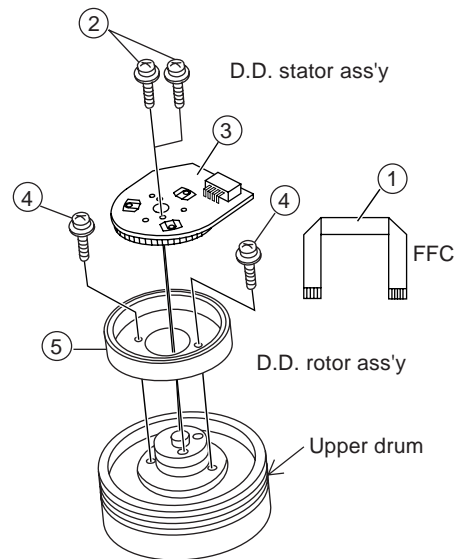


Figure 4-38.

REPLACING THE UPPER AND LOWER DRUM ASSEMBLY

- Replacement (Perform in the numerical order)
- ① Remove the motor as stated in Page 22 D.D. motor replacement.
- ② Remove the drum earth brush ass'y ②.
- ③ Remove the drum base ③ from the upper and lower drum assembly ①.

[Cares when replacing the drum]

1. Be careful so that the drum earth brush is not lost.
2. Do not touch directly the drum surface.
3. Fit gently the screwdriver to the screws.
4. Since the drum assembly is an extremely precise assembly, it must be handled with utmost care.
5. Make sure that the drum surface is free from dust, dirt and foreign substances.
6. After replacing the drum be sure to perform the tape running adjustment.
 - Playback switching point adjustment
 - X-position adjustment and check
 - Standard and x-3 slow tracking adjustment
7. After replacing the drum clean the drum.

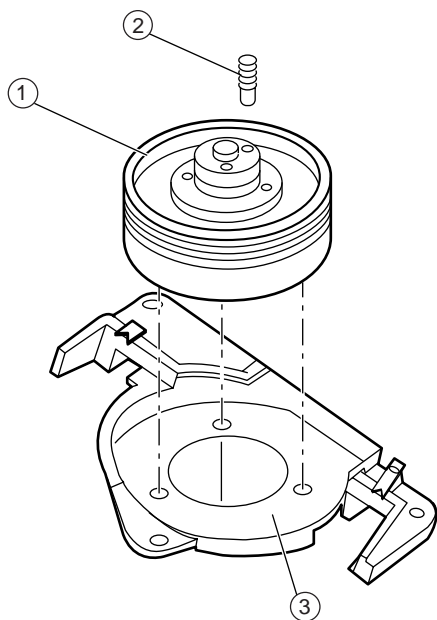


Figure 4-39.

ASSEMBLING OF PHASE MATCHING MECHANISM COMPONENTS

- Assemble the phase matching mechanism components in the following order.

1. Assemble the pinch roller assembly and pinch drive cam.
2. Mounting the shifter (on the back of the mechanism chassis).
3. Mounting the master cam (on the back of the mechanism chassis).
4. Assemble the connection gear, slow brake and loading motor parts.

- Pinch drive cam and pinch roller assembling method.

(Place the following parts in position in numerical order.)

- (1) Reverse drive lever ①
- (2) Reverse guide spring ②
- (3) Reverse guide lever ass'y ③
- (4) Reverse guide height adjusting nut ④
- (5) Pinch drive cam ⑤
- (6) Pinch roller ass'y ⑥
- (7) Open lever ⑦

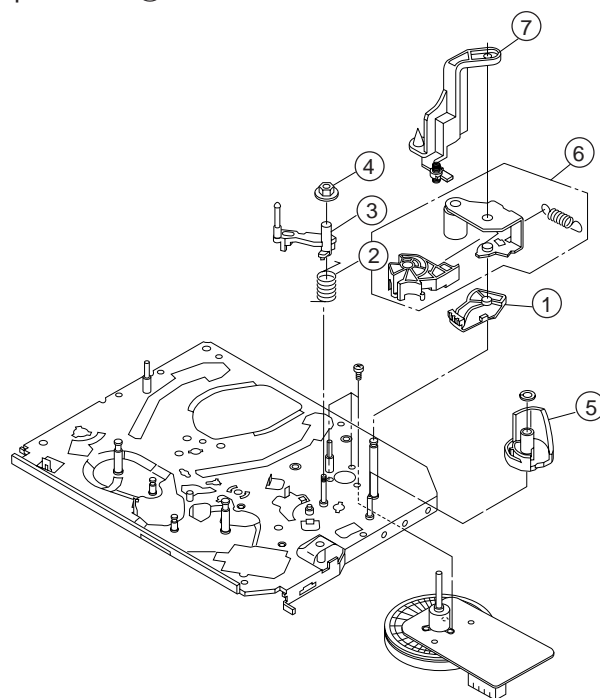


Figure 4-40.

① Insert Reverse Guide Lever Ass'y

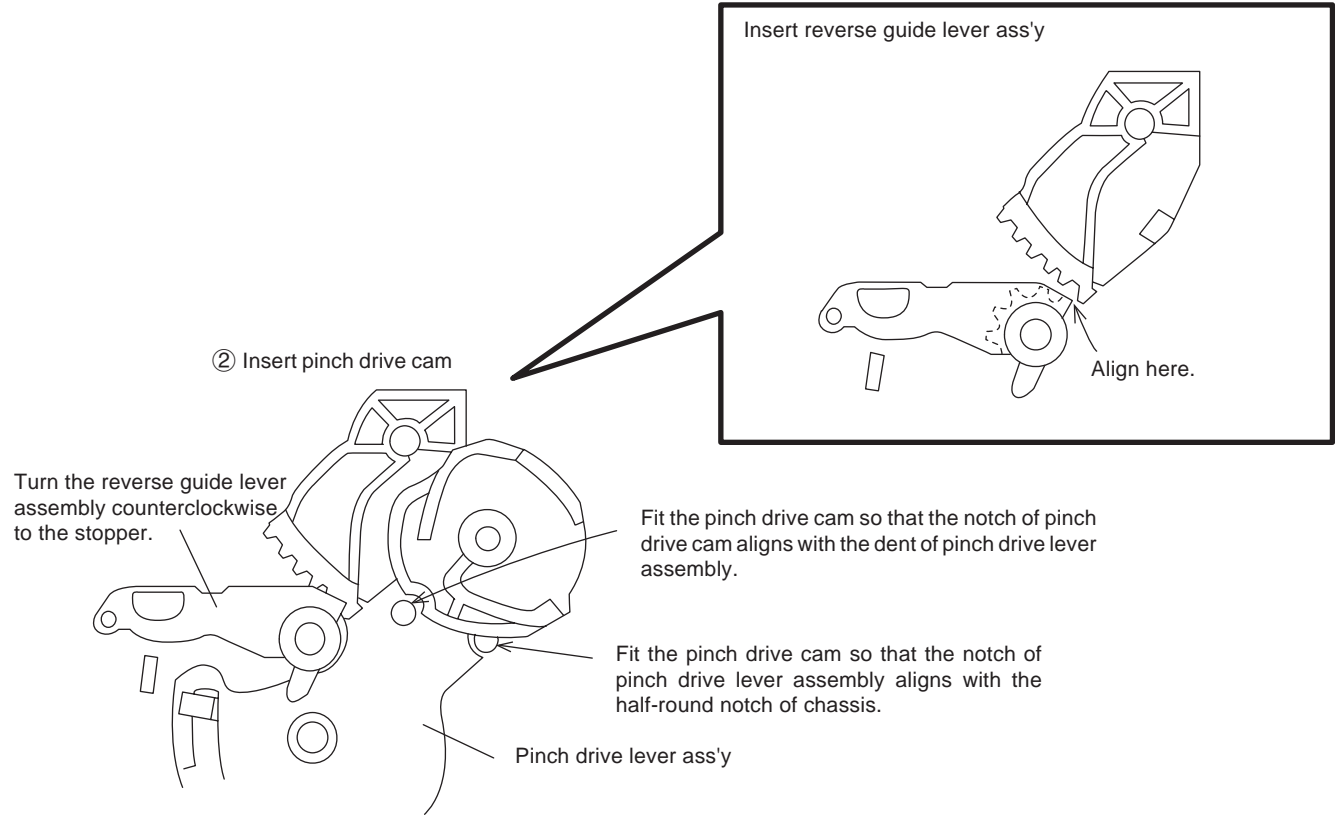


Figure 4-41-1.

② Insert Pinch Roller/Pinch Double Action Lever Ass'y. ③ Insert Open Lever.

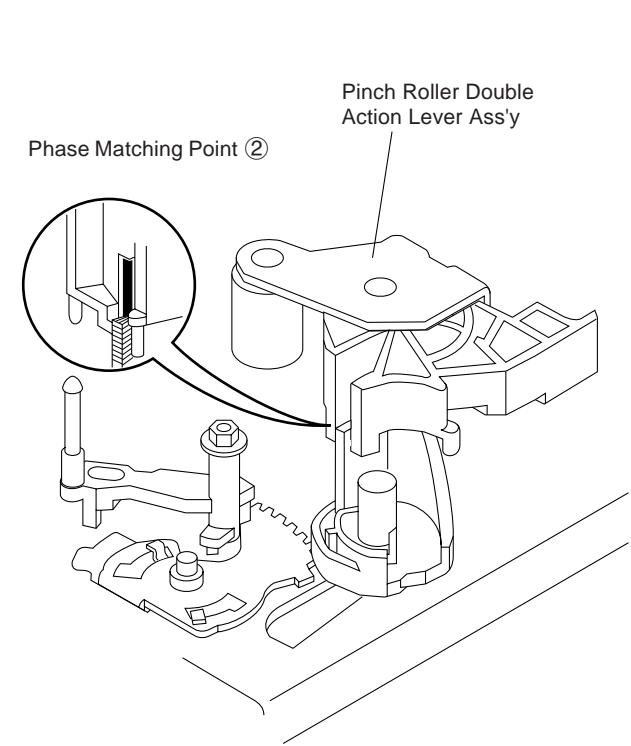


Figure 4-41-2.

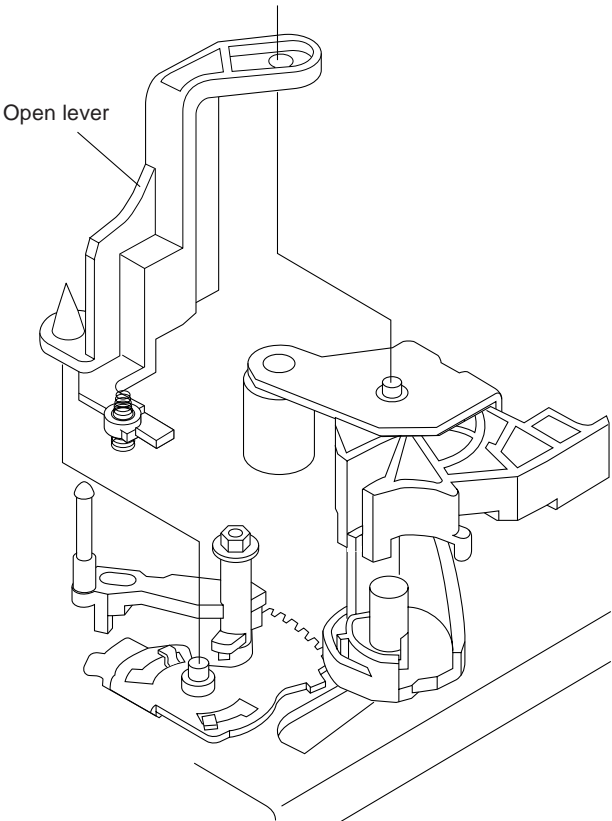
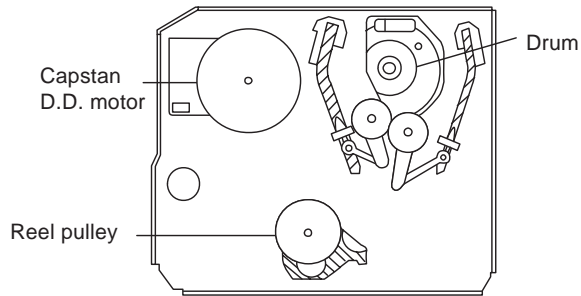


Figure 4-41-3.

INSTALLING THE SHIFTER



(Bottom side of mechanism chassis)

Figure 4-42.

1. Make sure that the loading gear is at the PHASE-MATCHING point ① as shown below.
2. Install, paying attention to insert point ⑤ and release point ③.
3. For the phase matching at the insert point ①, see the PHASE-MATCHING point ② as shown below.
4. Finally fix the inserts ① and ④.

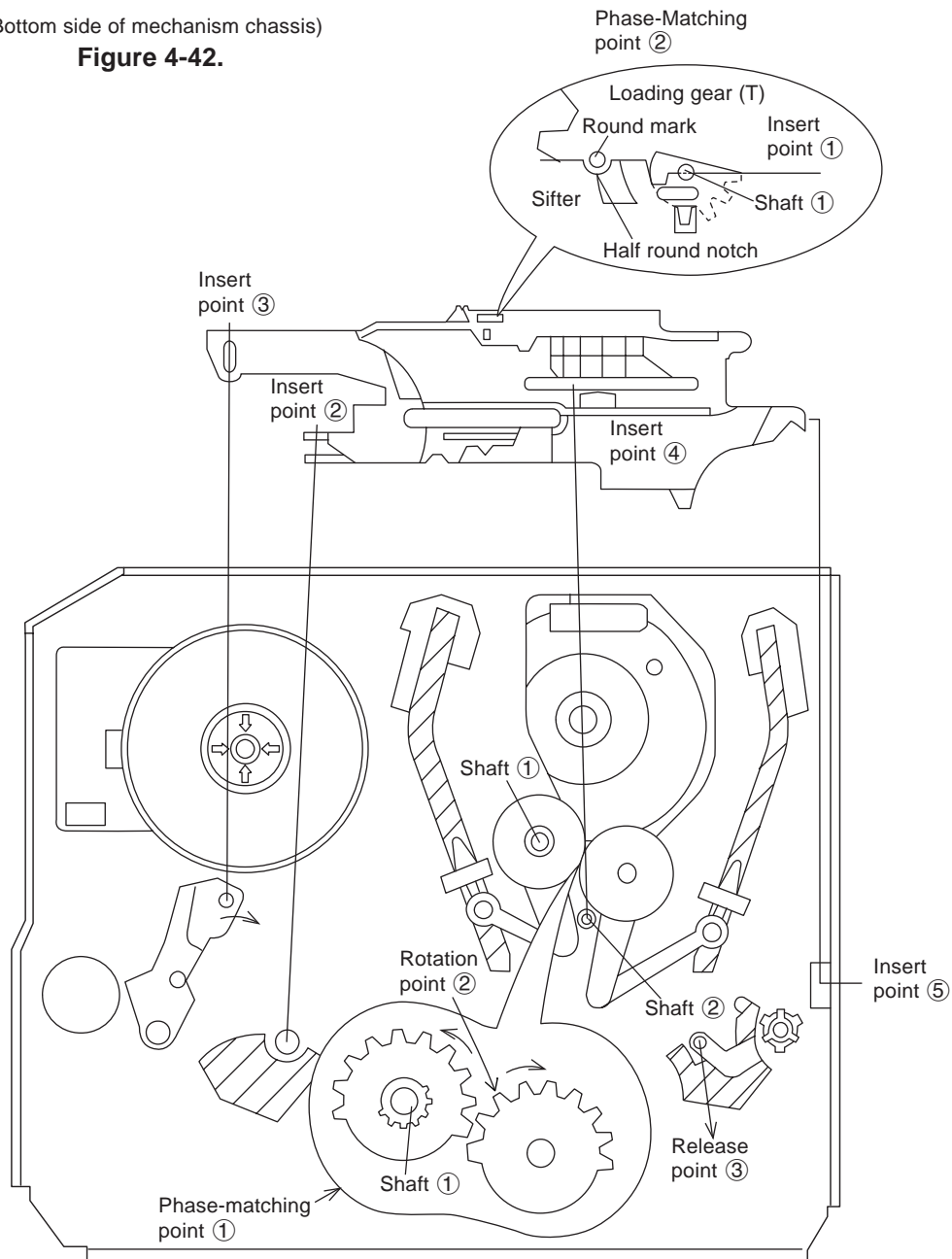


Figure 4-43.

INSTALLING THE MASTER CAM (AT REAR SIDE OF MECHANISM CHASSIS)

1. Make sure beforehand that the shifter is at the point as shown below.
2. Place the master cam in the position as shown below.

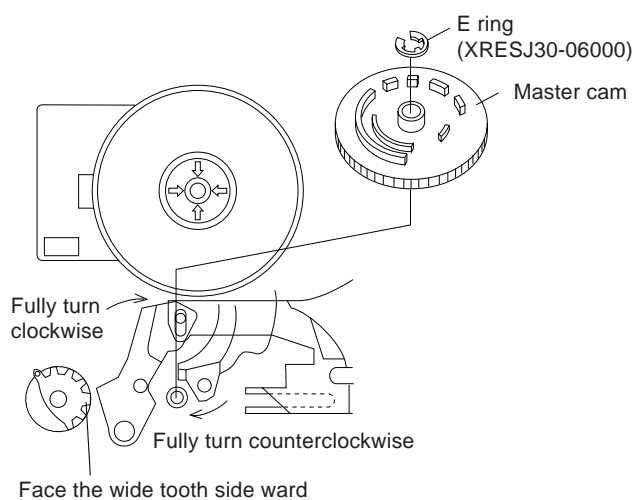
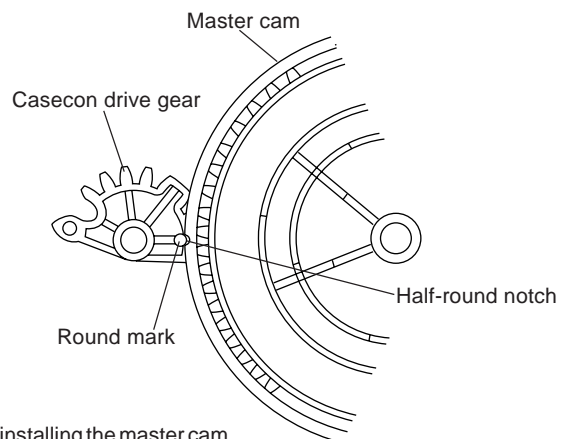


Figure 4-44-1.

Note:

See the figure below for the phase matching between the master cam and the casecon drive gear.

3. Finally fix with the E ring.



When installing the master cam, align the casecon drive gear round mark with the half-round notch of master cam.

Figure 4-44-2.

REPLACEMENT OF LOADING MOTOR

• Removal

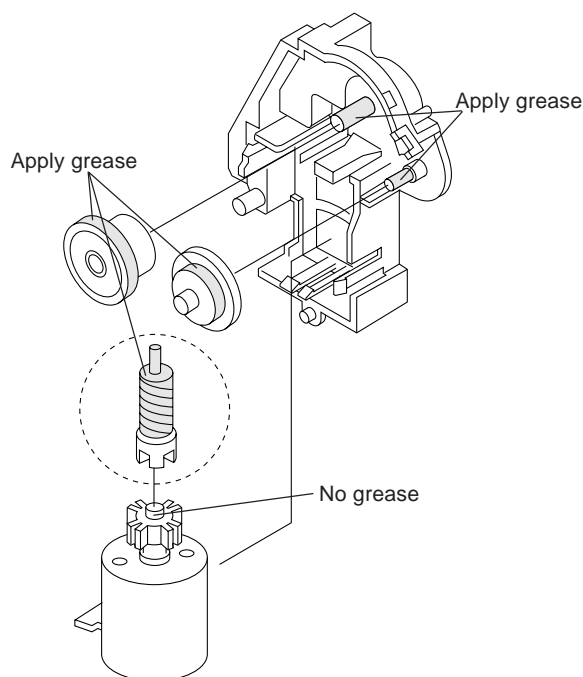


Figure 4-45.

• Replacement

Remove the loading motor, and install the replacement loading motor as shown below.

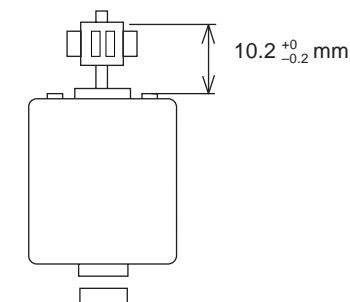


Figure 4-46.

The loading motor pressing-in must be less than 147 N (15 kgf).

Adjust the distance between motor and pulley to 10.2 $\begin{smallmatrix} +0 \\ -0.2 \end{smallmatrix}$ mm).

ASSEMBLY OF CASSETTE HOUSING

1. Drive Gear and R Drive angle ass'y

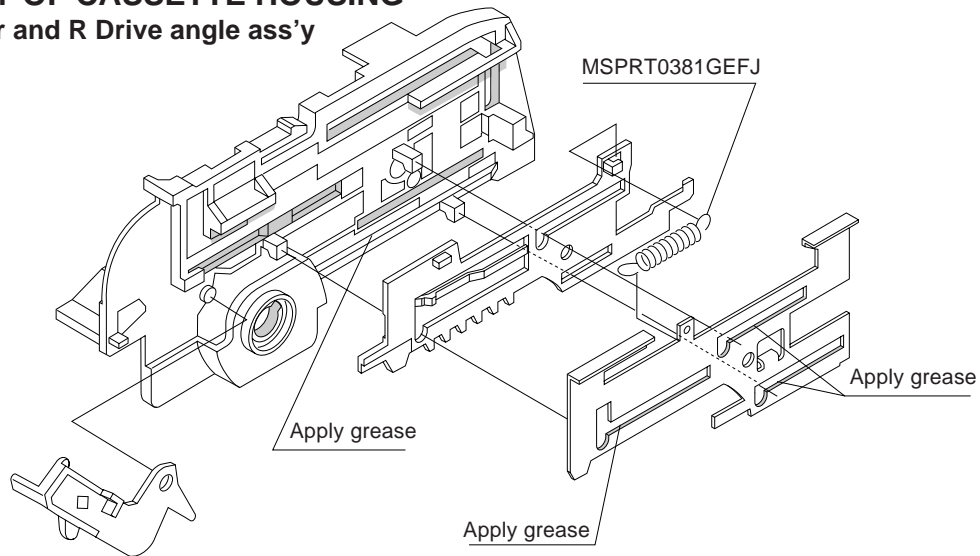


Figure 4-47.

2. Synchro Gear, Drive Gear L and Drive Gear R

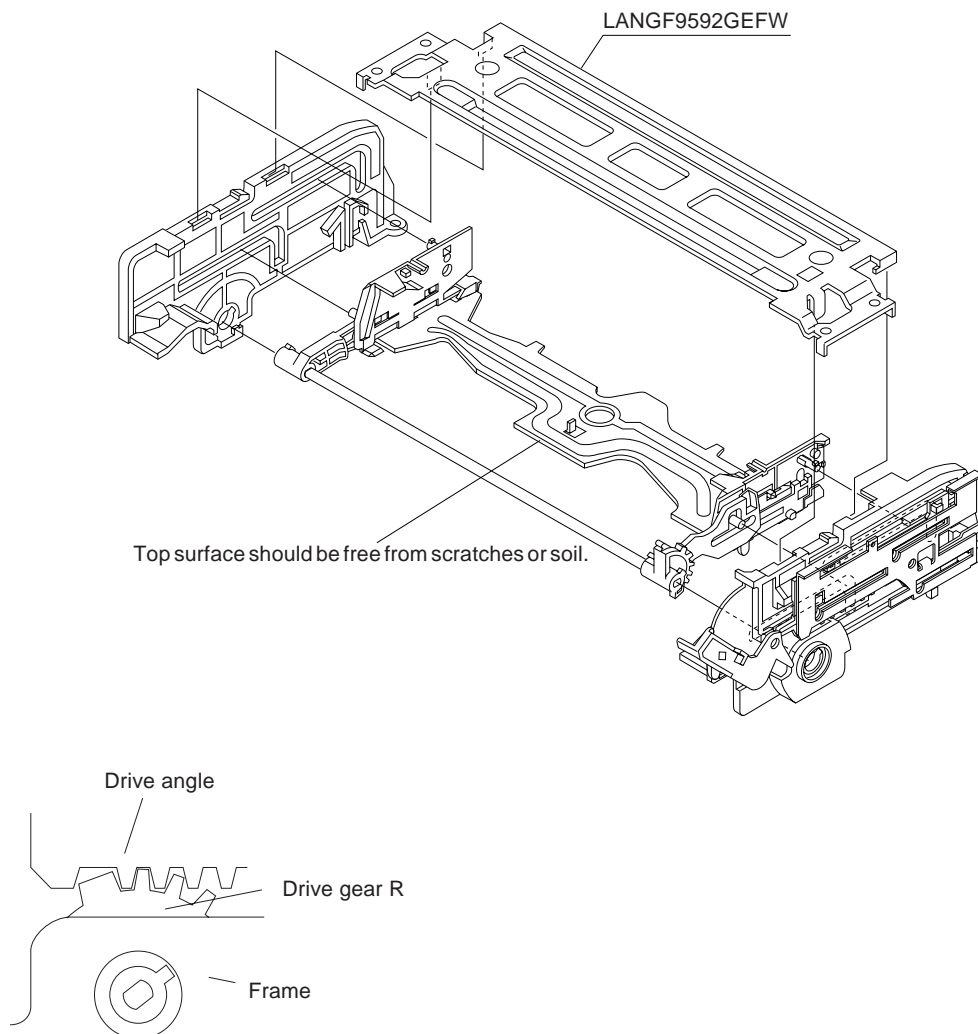


Figure 4-48.

5. ELECTRICAL ADJUSTMENT

Notes:

- Before the adjustment:
Electrical adjustments discussed here are often required after replacement of electronic components and mechanical parts such as video heads.
Check that the mechanism and all electric components are in good working condition prior to the adjustments, otherwise adjustments can not be completed.
- Instruments required:
 - Colour TV monitor
 - Dual-trace oscilloscope
 - Alignment tape (VROCPSV)
 - Blank video cassette tape
 - DC voltmeter
 - Screwdriver for adjustment
- ✖ Servicing precautions
When the IC705 (E²PROM) has been replaced, make the following reprogramming. Depending on models, the IC705 (E²PROM) has been factory-adjusted for its memory function.
It's therefore necessary to reprogram the memory function for the model in question.
Note that the servo circuit requires readjustments for the head switching point, slow and still modes.

- Location of controls and test points

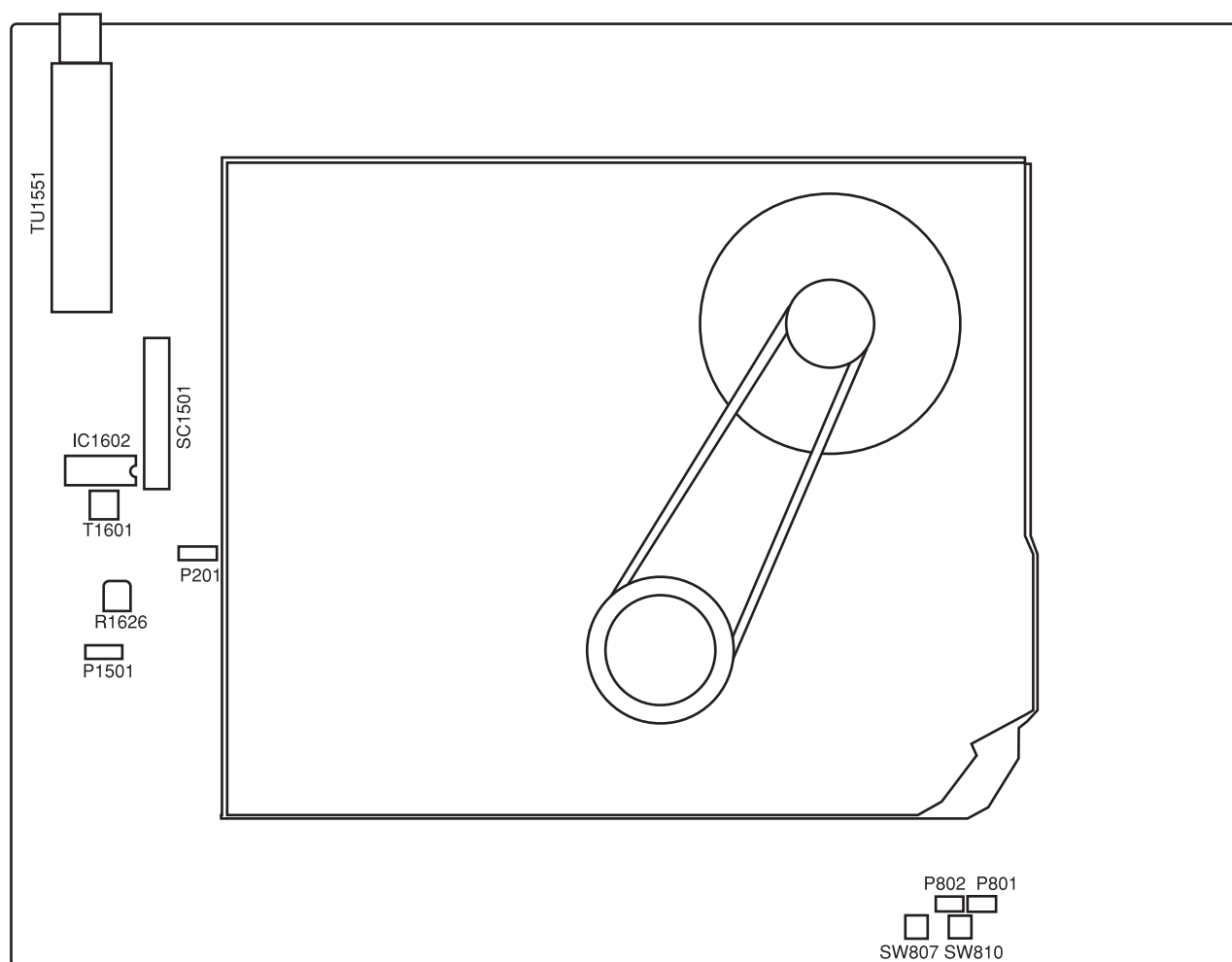


Figure 5-1.

SERVO CIRCUIT ADJUSTMENT

ADJUSTMENT OF HEAD SWITCHING POINT

Measuring instrument	Dual-trace oscilloscope Colour TV monitor
Mode	Playback
Cassette	Alignment tape (VROCPSV)
Test point	Pin(2) of P201 (H.SW.P.) to CH-1, VIDEO OUT jack to CH-2 (CH-1 trigger slope switch at (+), Internal trigger at CH-1 side.)
Specification	$6.5 \pm 0.5H$ (lines)

1. Remove the front panel and play the alignment tape. (VROCPSV)
2. Press the PLAY button. (Playback picture on the monitor screen.)
3. Make for a moment short-circuit P802, located at the front side on the main PWB.
Be sure that all the fluorescent display tubes light up into the TEST mode. (See Note below)
Be sure the "PLAY" appears in the fluorescent display tubes flashing (about 1Hz) into the auto PG adjustment operating.

Note:

When the manual PG adjustment, observe the waveform with an oscilloscope and make adjustment FF or REW button so that the specification.

4. Stop the "PLAY" appears in the flashing of fluorescent display tubes at adjusted.
5. Press the STOP button in the return to normal mode.
6. Make this checking of waveform on the oscilloscope screen be as shown in Figure 5-2. just after the head switching point have been adjusted.

Note:

- ① Set-up of TEST mode.
When the adjustment of HEAD SWITCHING POINT, AUTO TRACKING function is invalid.
- ② When the cassette housing control ass'y is removed, set-up of mechanism operating mode.
 - 1) Replug the AC power cord it a few minutes later.
 - 2) Make a short-circuit P801 located at the front side on the main PWB, and press both tracking control button at the same time to set the tracking in center.
 - 3) AC power cord is plugged in.
 - 4) You can mechanism operating mode, Replug the AC power cord a few minutes later.

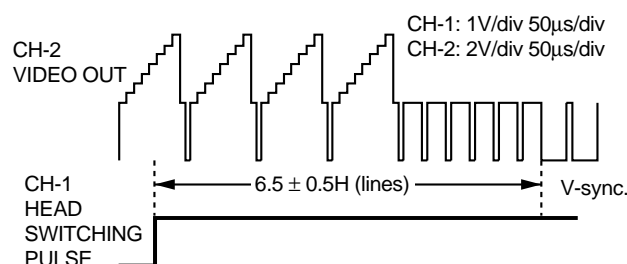


Figure 5-2.

ADJUSTMENT OF PAL SYSTEM SP/LP SLOW TRACKING PRESET

Measuring instrument	Colour TV monitor
Mode	Playback
Cassette	Self-recorded tape (SP/LP mode)(See Note below)
Control	Tracking control buttons (+) or (-)
Specification	Minimized noise on monitor screen

1. Have the unit to receive a good TV broadcast or feed a video signal to the VIDEO IN jack. (See note ② below)
2. Set the tape speed in SP mode by using the remote control and record the signal on tape.
3. Rewind and play the tape where signal was recorded in above step.
4. Press the SLOW button on the remote control, and playback the recorded portion in the slow mode.
5. Make for a moment short-circuit P802, located at the front side on the main PWB.
Be sure that all the fluorescent display tubes light up into the TEST mode.
6. Look at the monitor screen and adjust the (+) or (-) TRACKING buttons so that the there is noise disappears from the screen.
7. Press the STOP button to return to normal mode.
8. Play the tape a few seconds then press the SLOW button again and make sure there is on noise in the screen. (For the LP mode put adjustment at the same adjustment way as SP mode.)

Notes:

- ① Self-recorded tape means a cassette whose program was recorded by the unit being adjusted.
- ② The TV program will not be recorded if RCA or 21pin plugs are plugged in to the AUDIO/VIDEO input terminals.

ADJUSTMENT OF PAL SYSTEM FV(False Vertical Sync) OF STILL PICTURE

Measuring instrument	Colour TV monitor
Mode	Playback still
Cassette	Self-recorded tape (SP mode) (See Note below ②)
Control	Tracking control buttons (+) or (-)
Specification	No vertical jitter of picture

1. Play a cassette which was recorded by the unit in SP mode.
2. Press the PAUSE/STILL button to freeze the picture.
3. Look at the monitor screen and adjust (+) or (-) TRACKING buttons so that the vertical jitter of the picture to be minimized.
4. Play and freeze the self-recorded tape in SP mode and make sure vertical jitter of the picture is not noticeable.(For the LP mode put adjustment at the same adjustment way as SP mode.)

Note:

- ① The FV goes back to the it's initial state when the unit is put into the system controller reset mode due to power failure, etc.
In this case, preset the FV once again.
- ② Self-recorded tape is a cassette whose program was recorded by the unit being adjusted.

ADJUSTMENT OF RF AGC ADJUSTMENT

Measuring instrument	Colour TV monitor DV voltmeter
Mode	RF signal at 40CH(by VHF signal generator)
Test point	Pin(2)(Sig.) of P1501. Pin(4)(GND.) of P1501.
Control	R1626 RF AGC control
Specification	$3.9 \pm 0.2V$

- 1.Receive the 40 channel signal (colour bar signal at 87.5% modulated.) at input field strength: 56dB μ of antenna terminal.
- 2.Connect a DC voltmeter to test point shown in table.
- 3.Look the voltmeter and adjust R1626 so that the voltage be specified.

ADJUSTMENT OF VCO CIRCUIT

Measuring instrument	Colour TV monitor DV voltmeter
Mode	RF signal at 40CH(by VHF signal generator)
Test point	Pin(1)(Sig.) of P1501. Pin(4)(GND.) of P1501.
Control	T1601 VCO control
Specification	$2.5 \pm 0.2V$

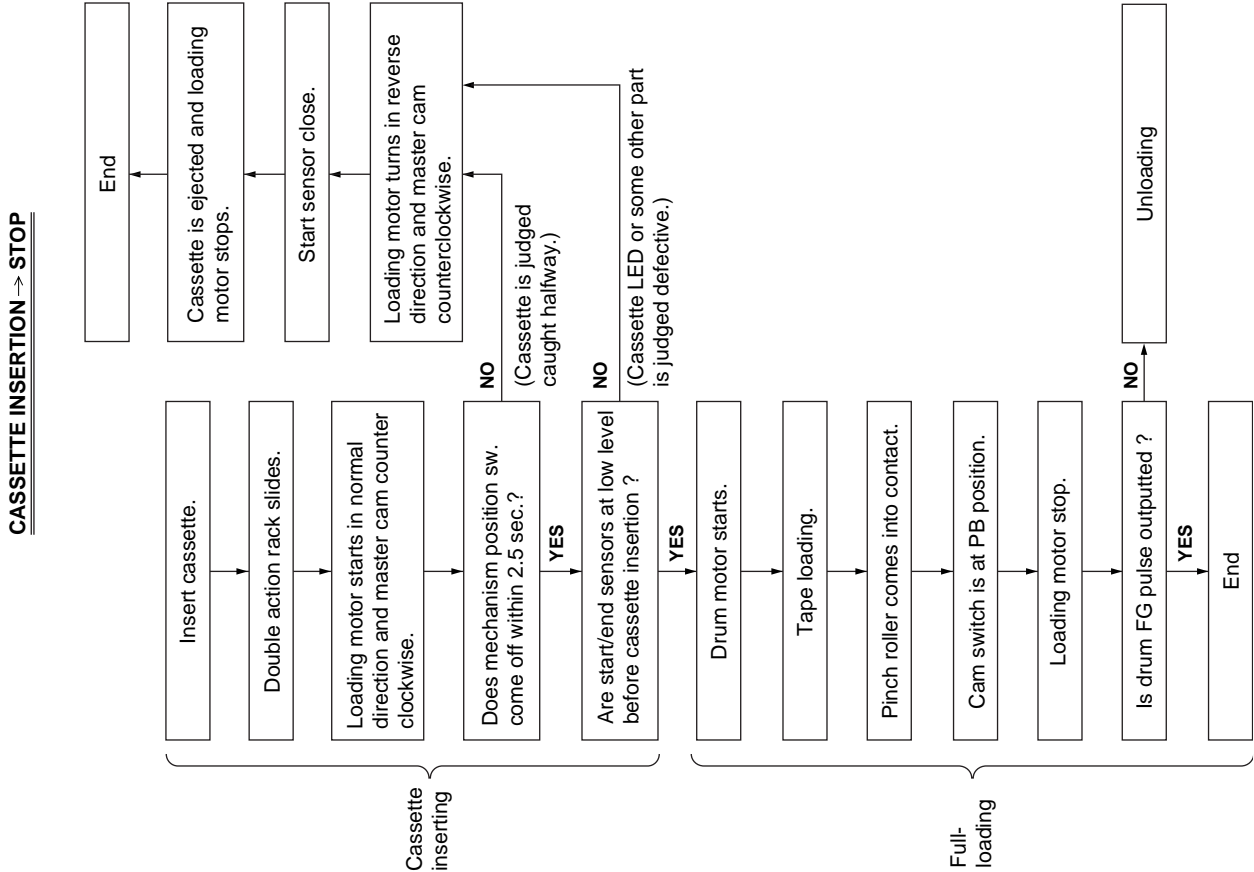
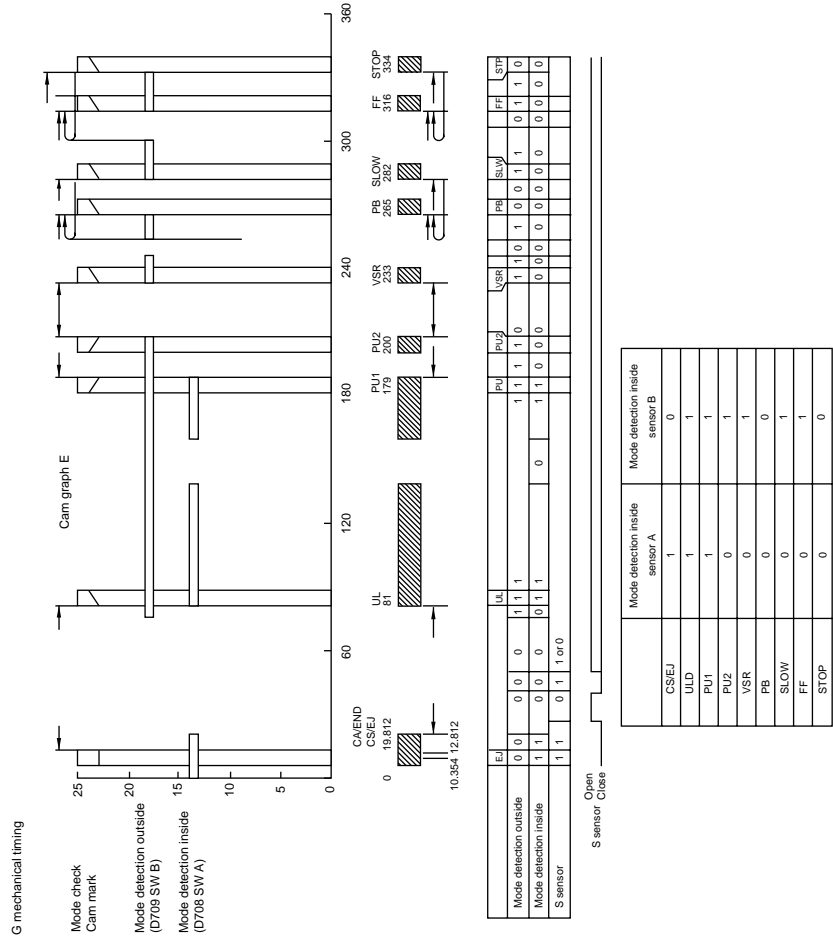
Note:

When power is turned on, tune in to station in the test mode.

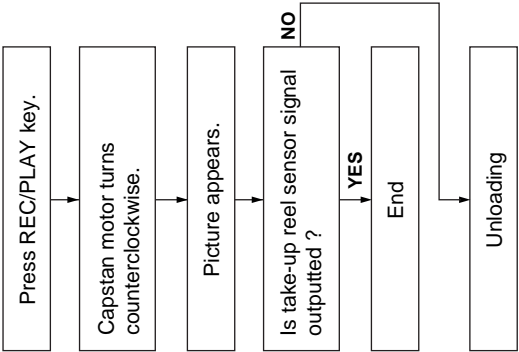
- 1.Receive the 40 channel signal(colour bar signal at 87.5% modulated.) at input field strength: 70dB μ of antenna terminal.
- 2.Connect a DC voltmeter to test point shown in table.
- 3.Look the voltmeter and adjust T1601 so that the voltage be specified.

6. MECHANISM OPERATION FLOWCHART AND TROUBLESHOOTING GUIDE

MECHANISM OPERATION FLOWCHART

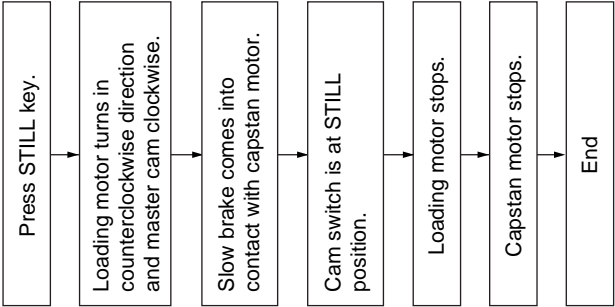


STOP → REC/PLAY

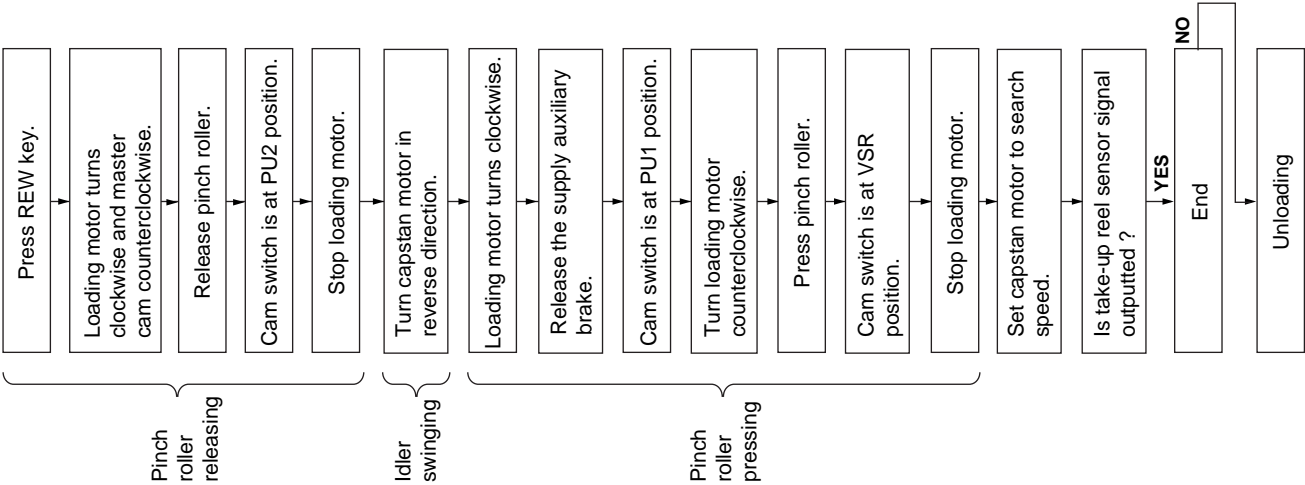


Slow brake pressing

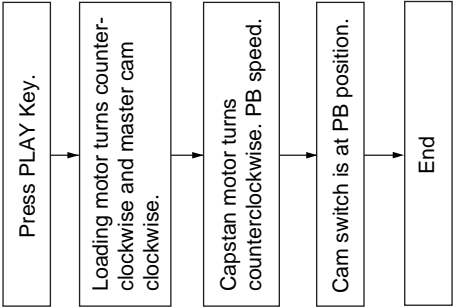
PLAY → STILL



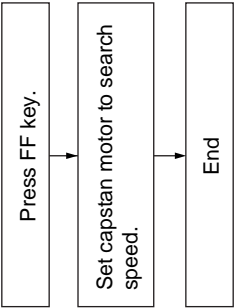
PLAY → VSR



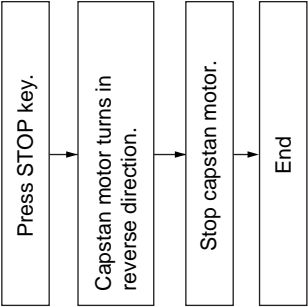
VSR → PLAY



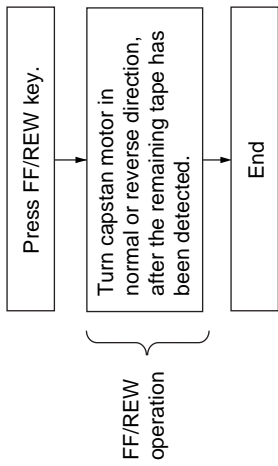
PLAY → VSF



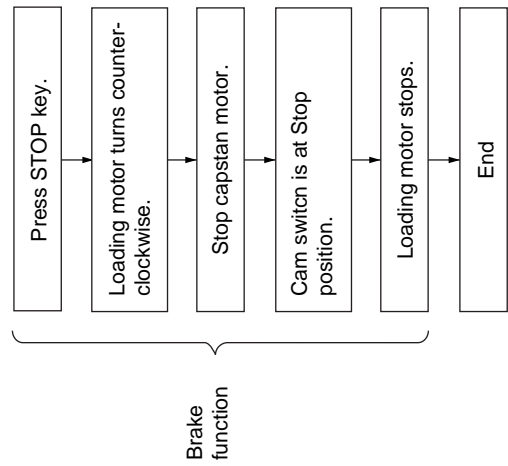
REC/PLAY → STOP



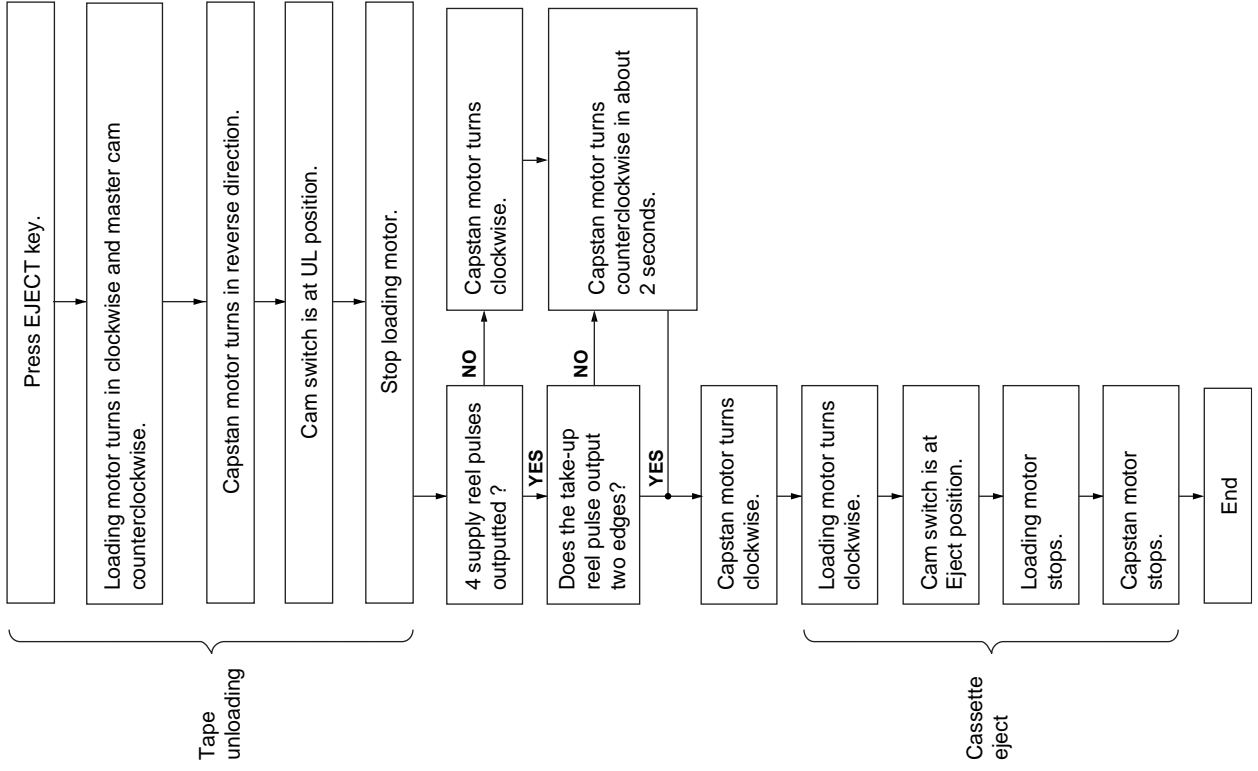
STOP → FF/REW



FF/REW → STOP

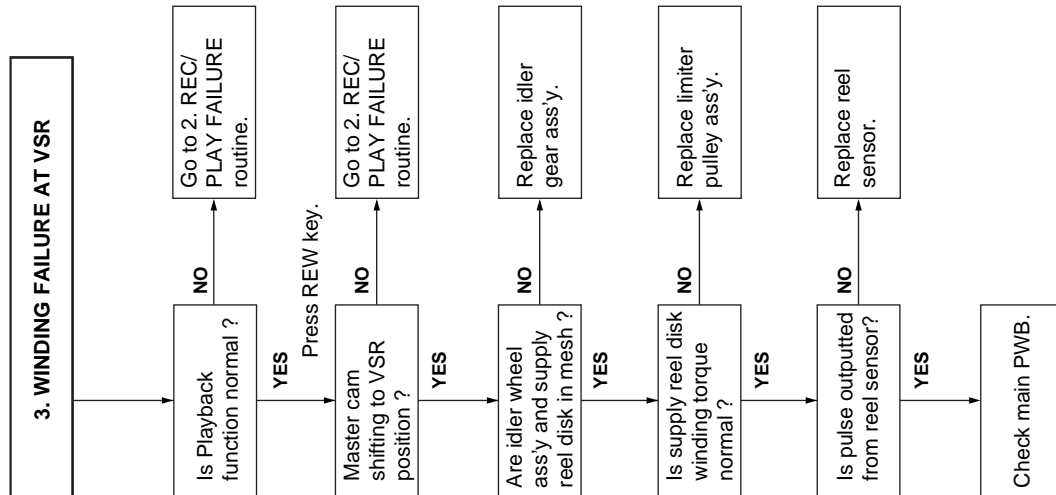
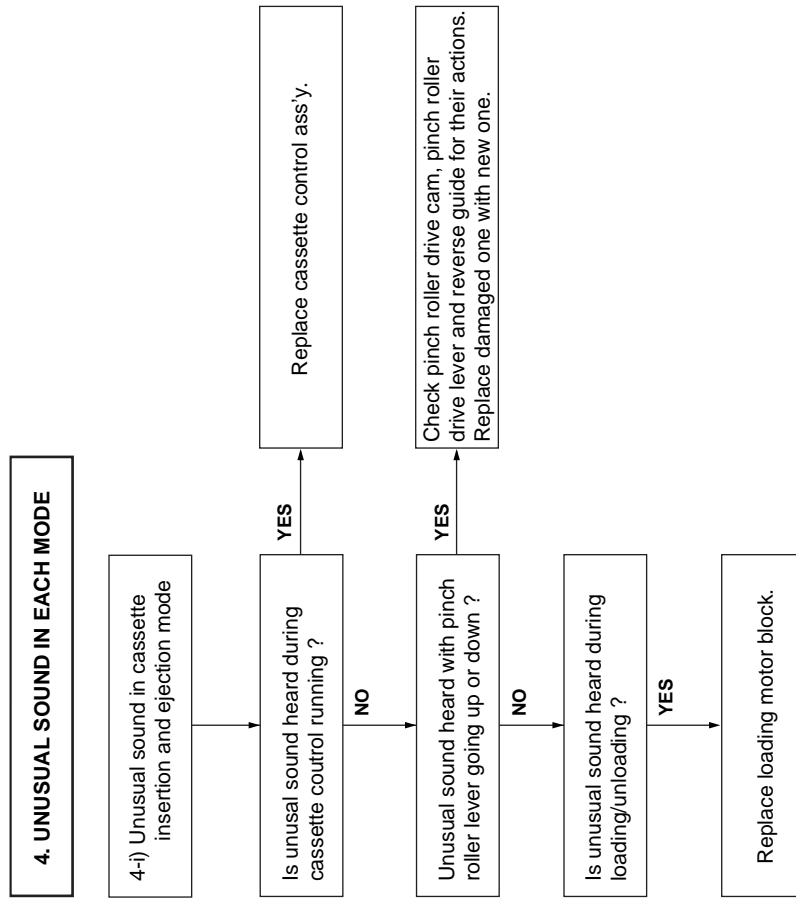


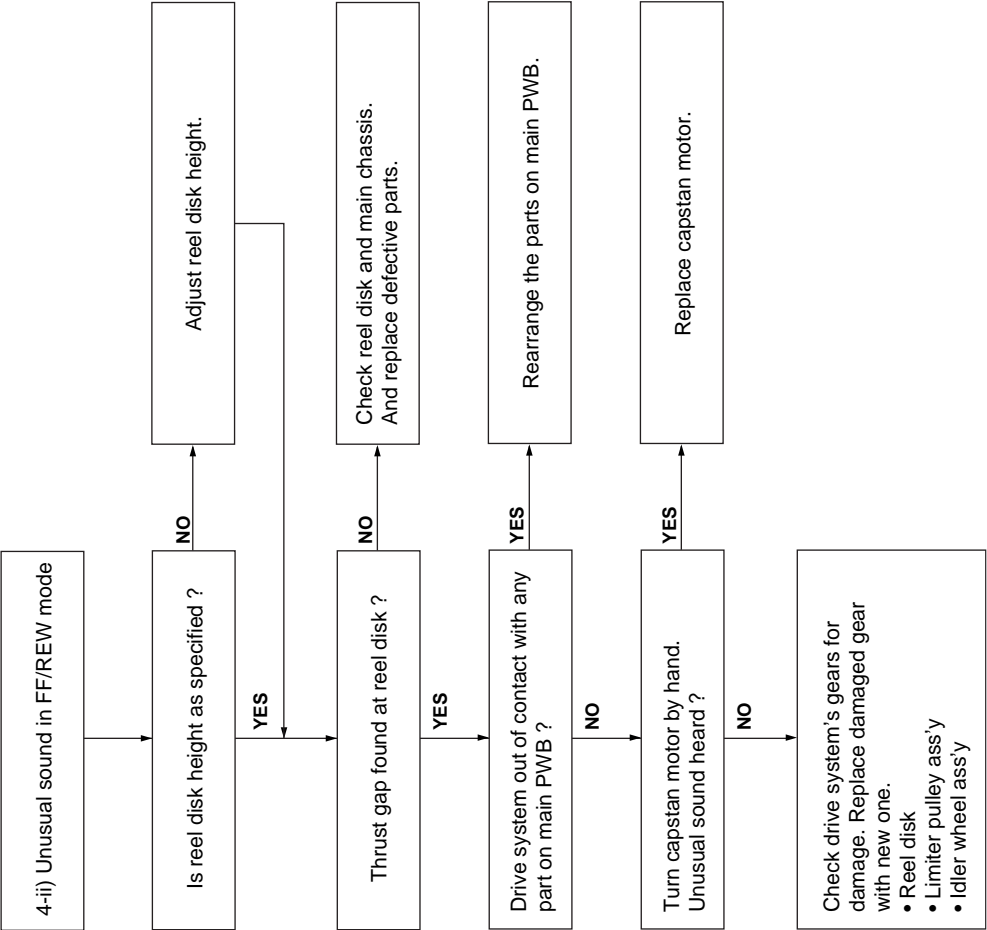
STOP → CASSETTE EJECT



2. REC/PLAY FAILURE (MODE RELEASE)

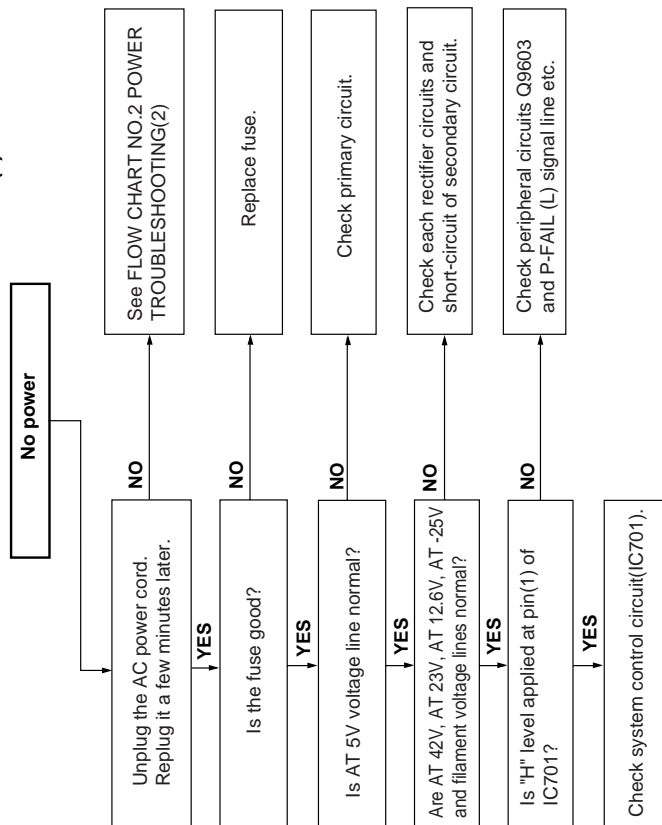




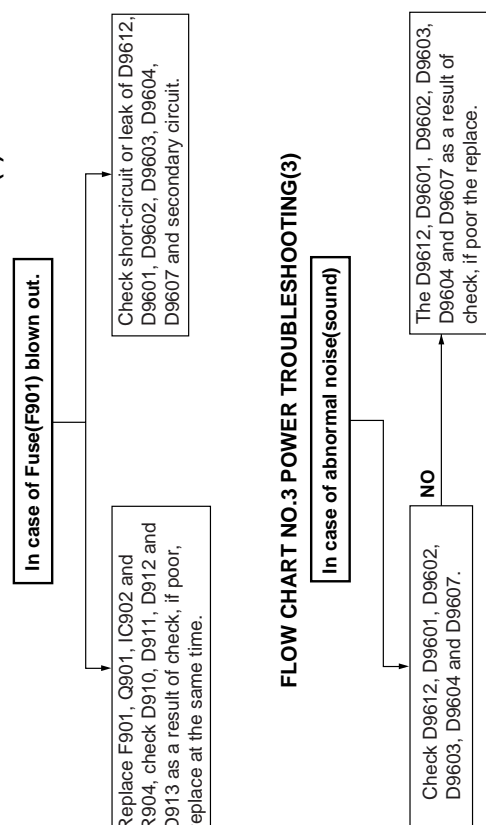


7. ELECTRICAL TROUBLESHOOTING

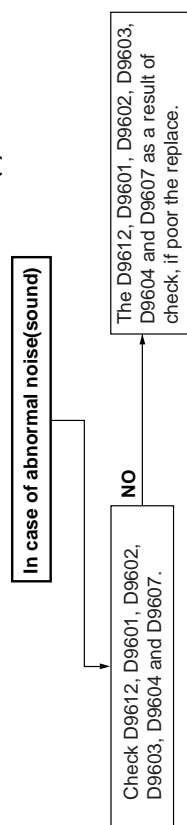
FLOW CHART NO.1 POWER TROUBLESHOOTING(1)



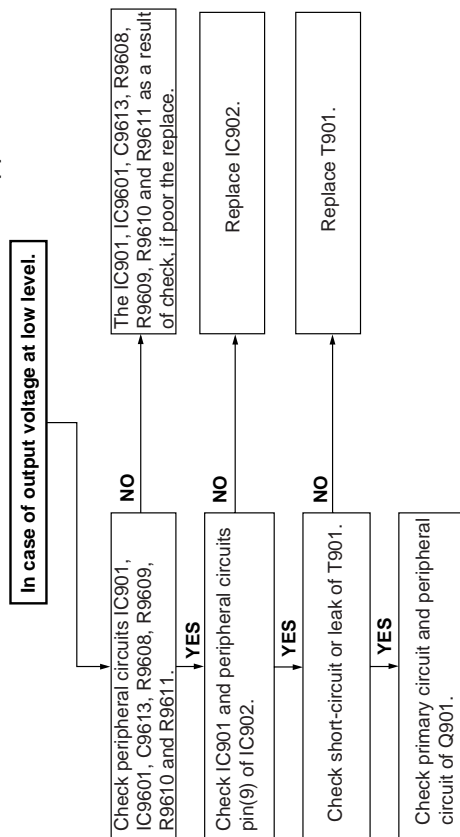
FLOW CHART NO.2 POWER TROUBLESHOOTING(2)



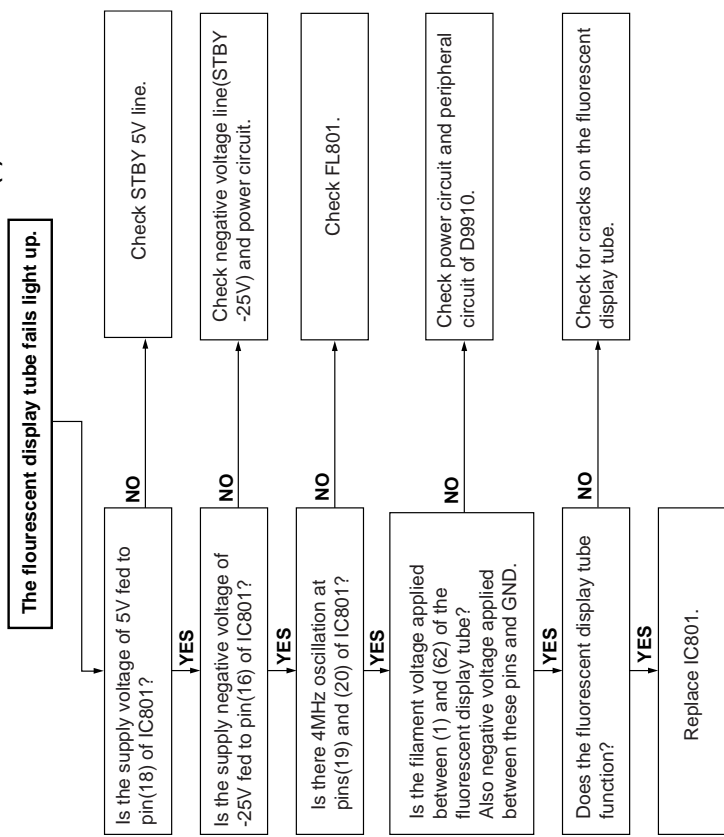
FLOW CHART NO.3 POWER TROUBLESHOOTING(3)



FLOW CHART NO.4 POWER TROUBLESHOOTING(4)

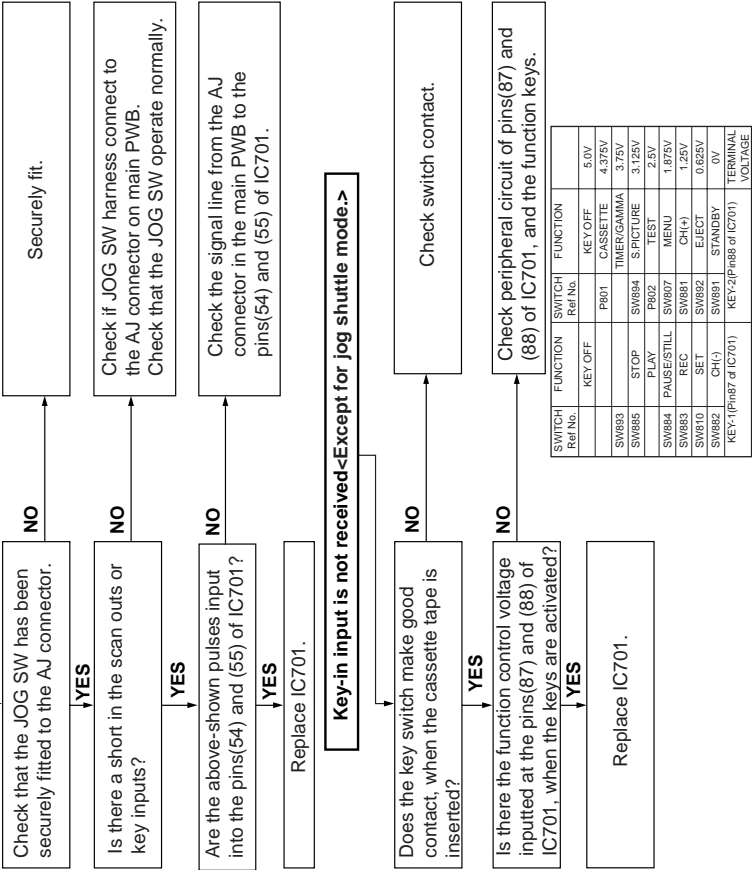


FLOW CHART NO.5 TIMER TROUBLESHOOTING (1)



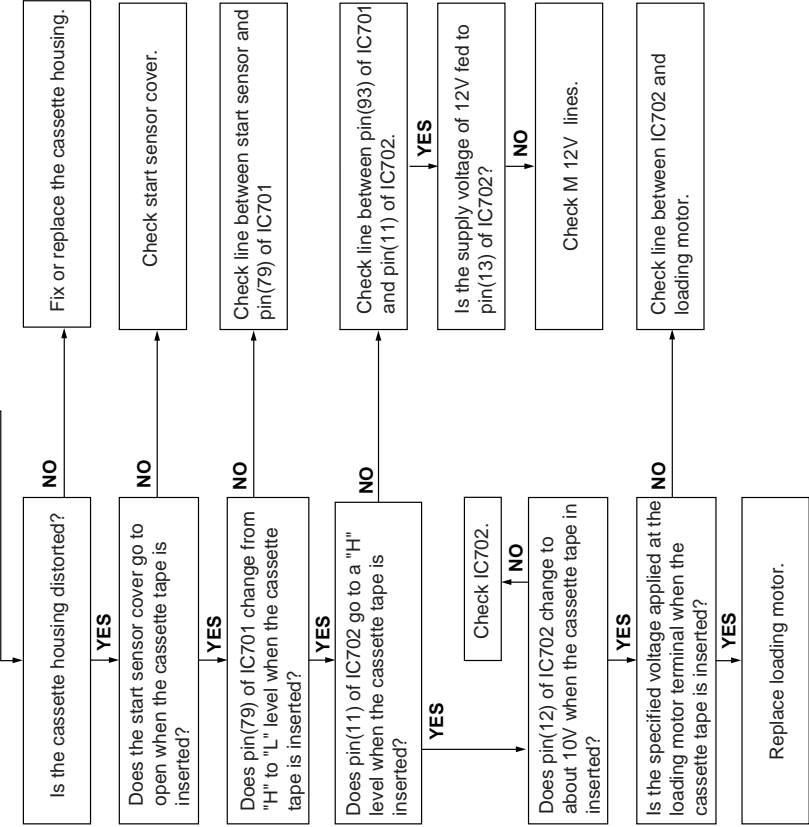
FLOW CHART NO.6 TIMER TROUBLESHOOTING (2)

Key-in input is not received <For jog shuttle mode.>



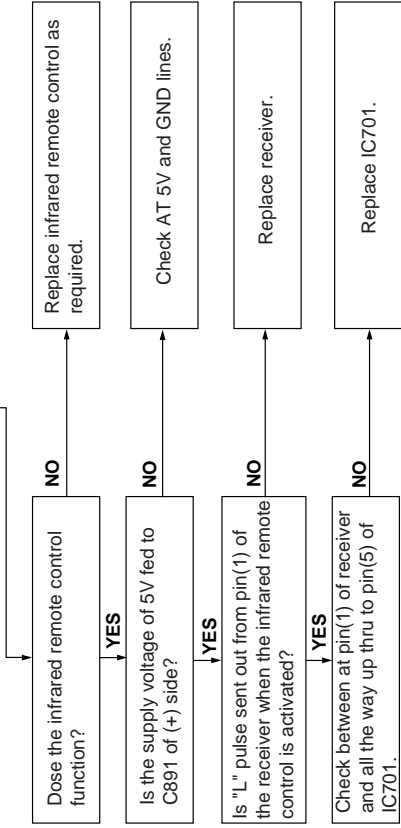
FLOW CHART NO.8 CASSETTE CONTROL TROUBLESHOOTING(1)

A cassette tape is not take in.

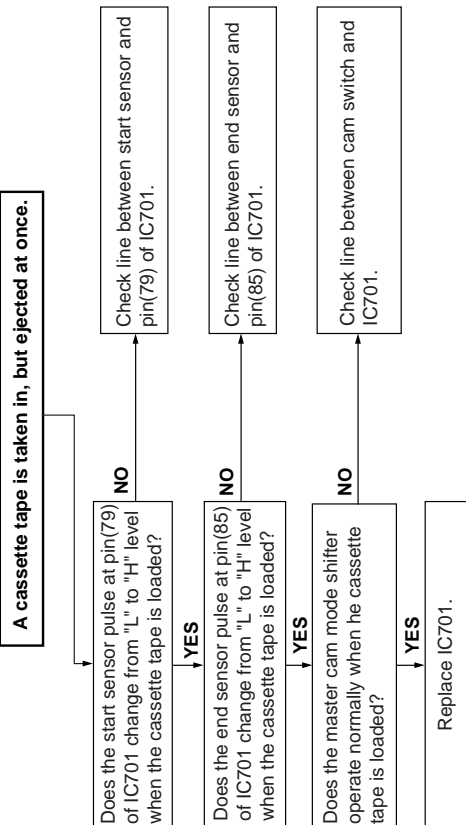


FLOW CHART NO.7 INFRARED R/C TROUBLESHOOTING

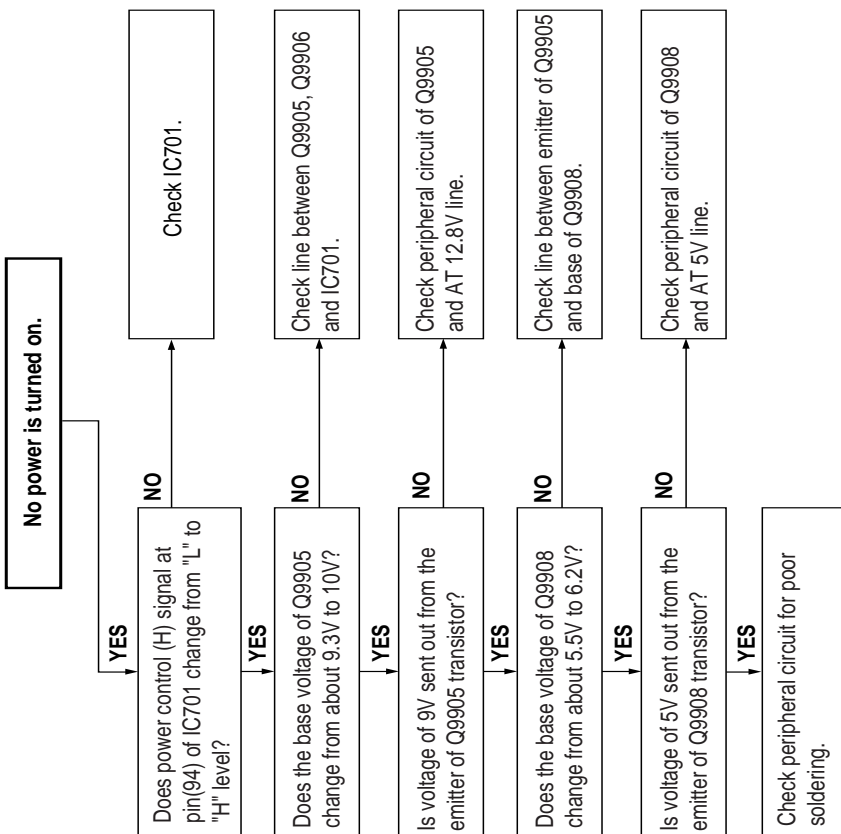
No operation is possible from the infrared remote control.



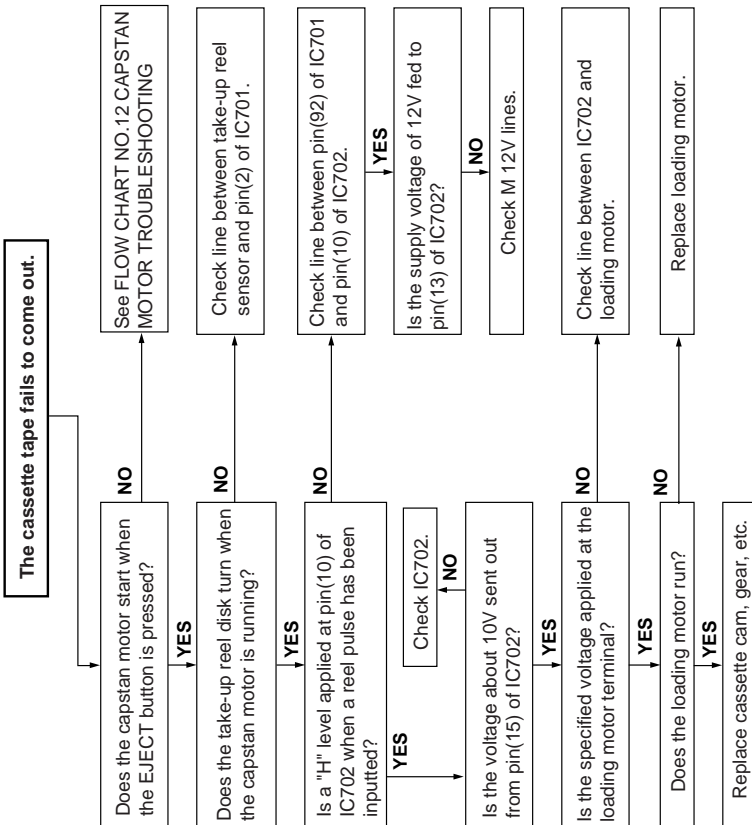
FLOW CHART NO.9 CASSETTE CONTROL TROUBLESHOOTING(2)



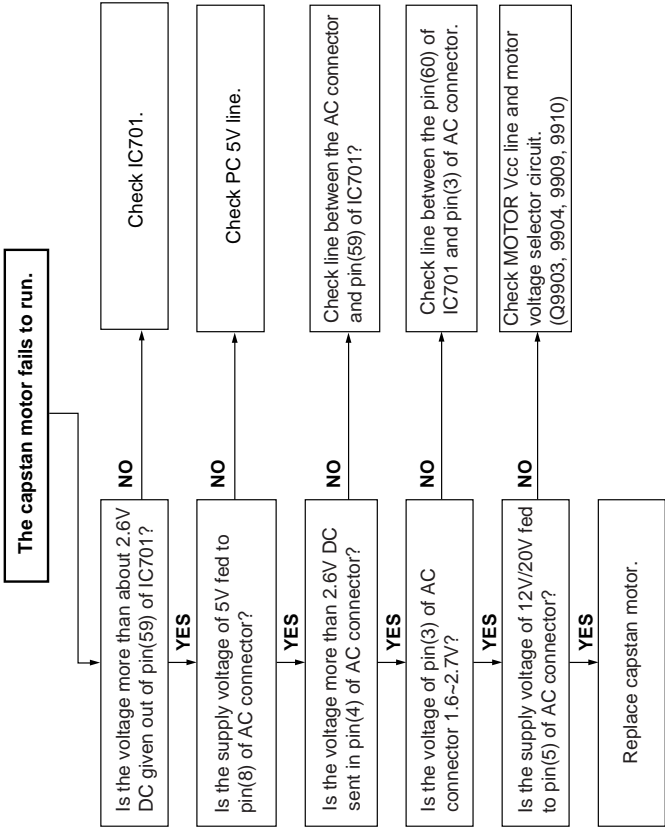
FLOW CHART NO.11 SYSTEM CONTROL TROUBLESHOOTING



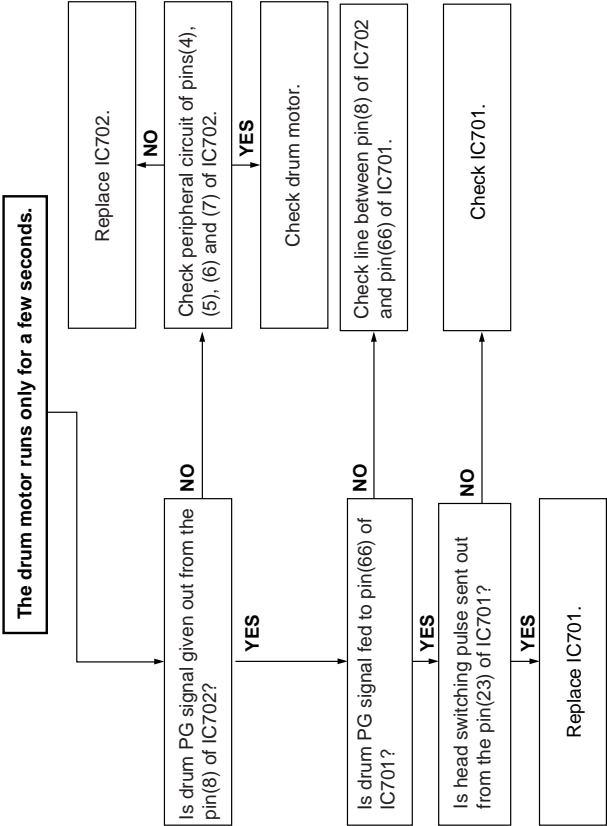
FLOW CHART NO.10 LOADING MOTOR AND EJECT TROUBLESHOOTING



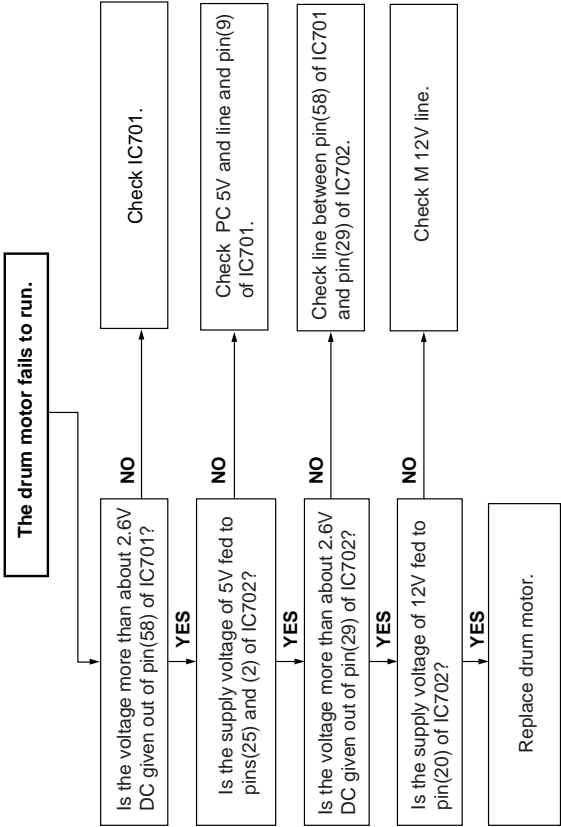
FLOW CHART NO.12 CAPSTAN MOTOR TROUBLESHOOTING



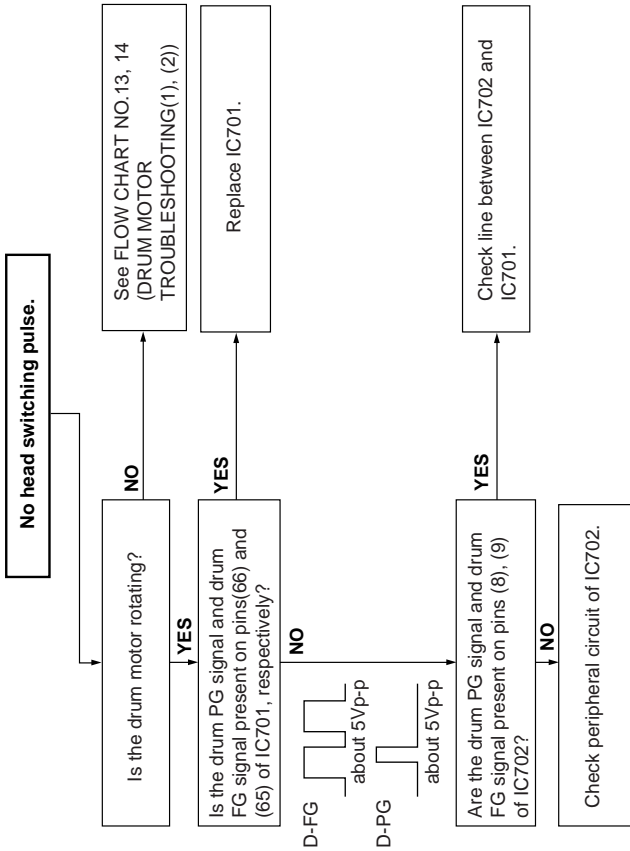
FLOW CHART NO.14 DRUM MOTOR TROUBLESHOOTING(2)



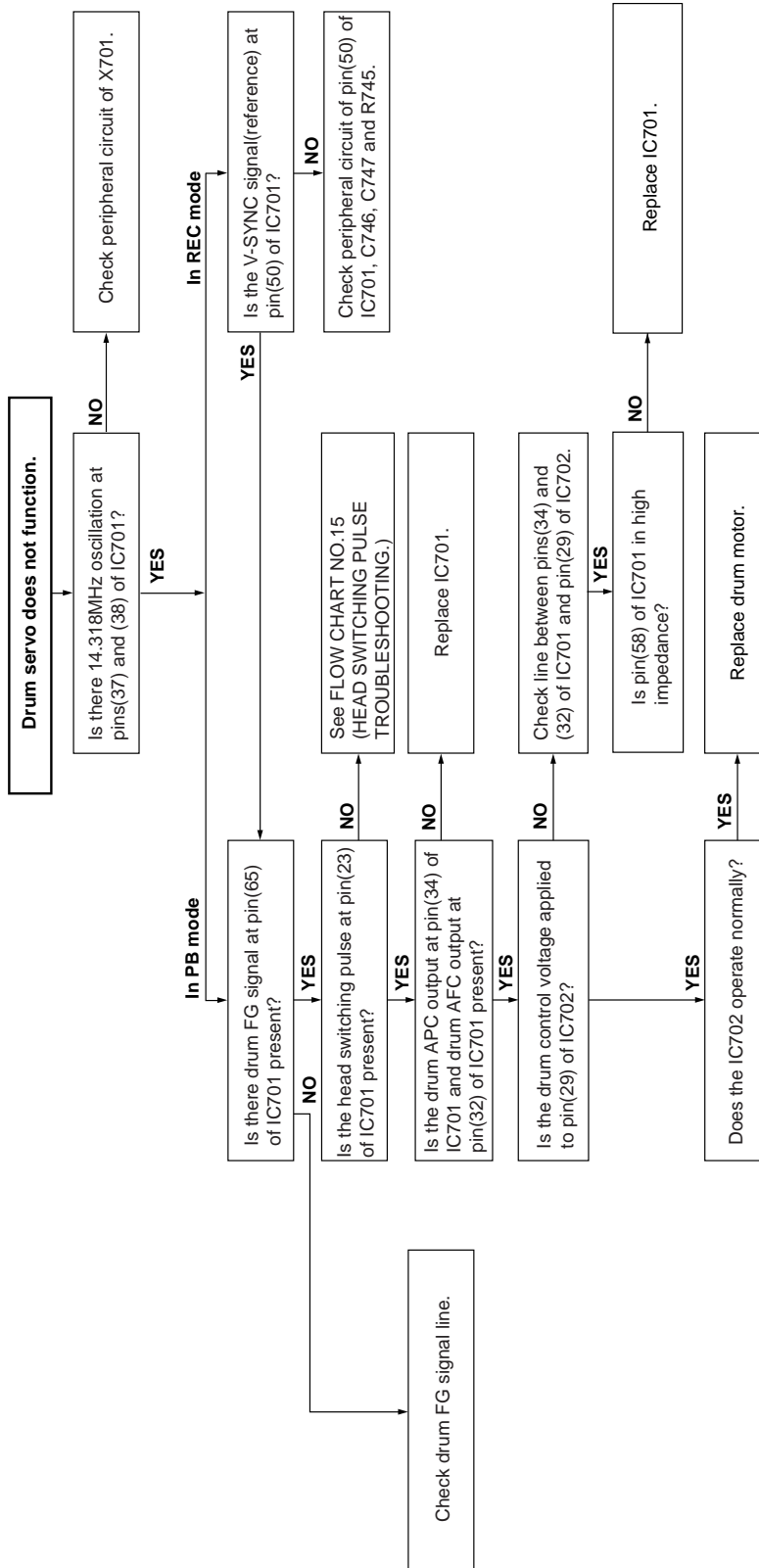
FLOW CHART NO.13 DRUM MOTOR TROUBLESHOOTING(1)



FLOW CHART NO.15 HEAD SWITCHING PULSE TROUBLESHOOTING.

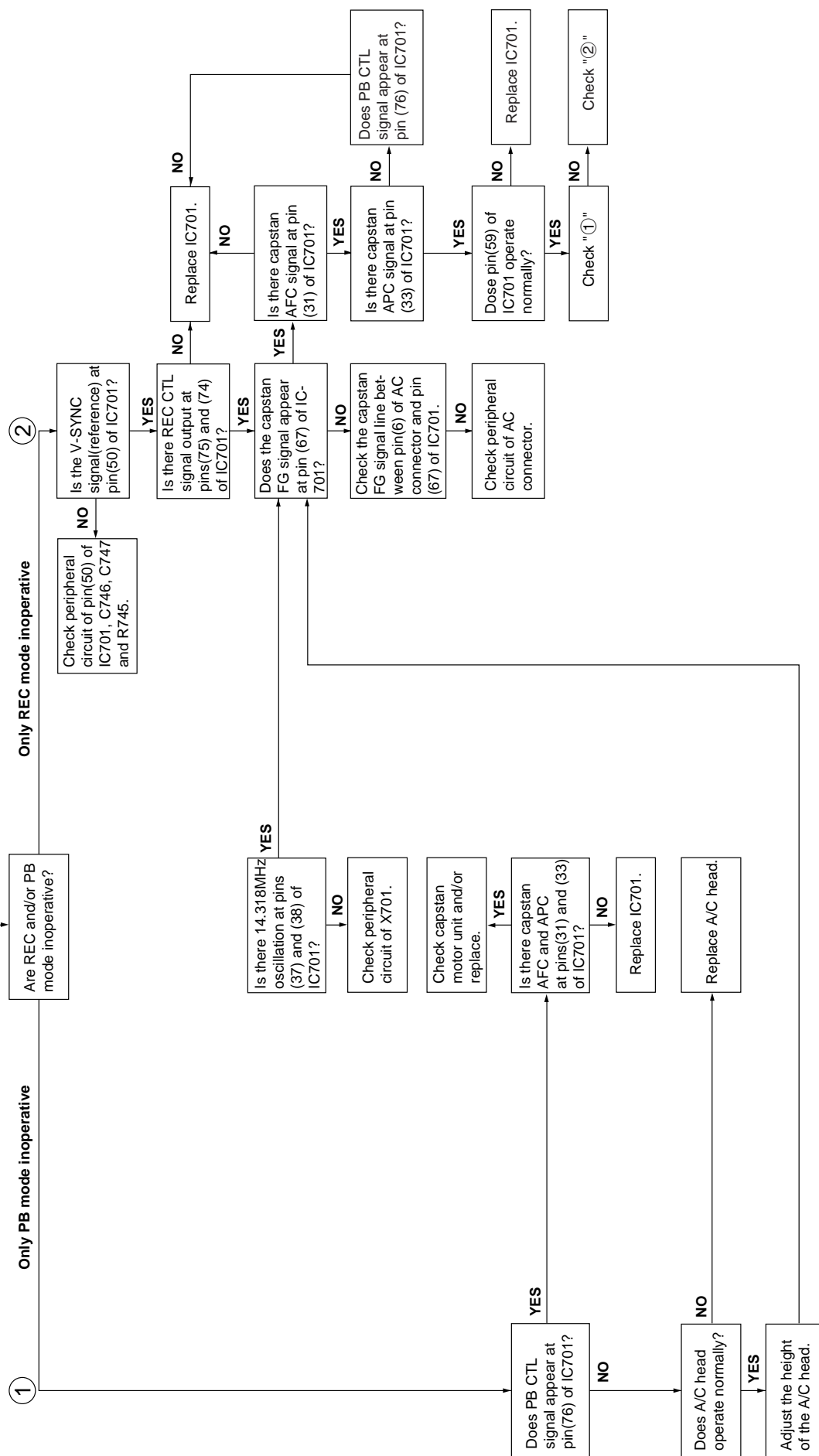


FLOW CHART NO.16 DRUM SERVO TROUBLESHOOTING

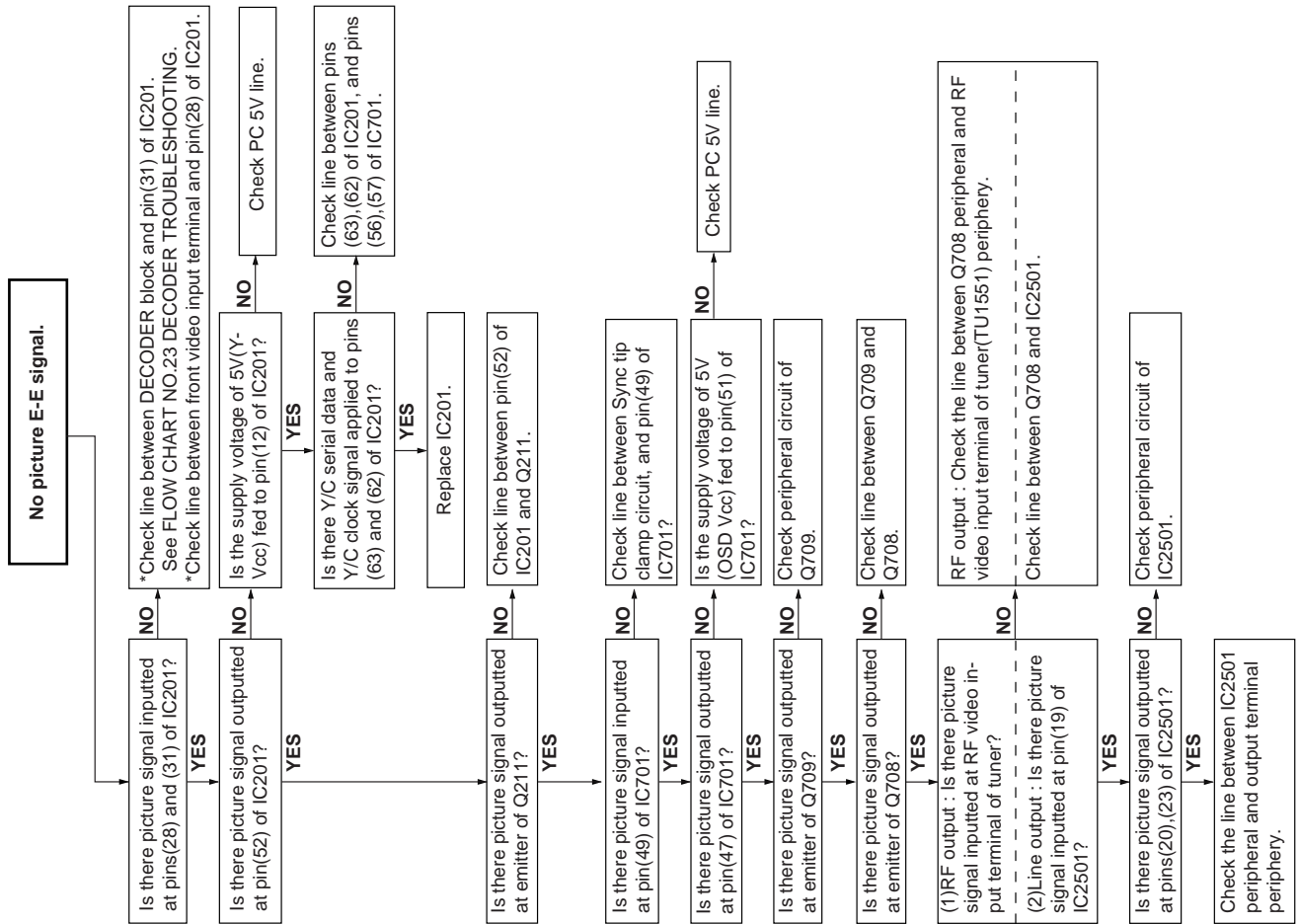


FLOW CHART NO.17 CAPSTAN SERVO TROUBLESHOOTING

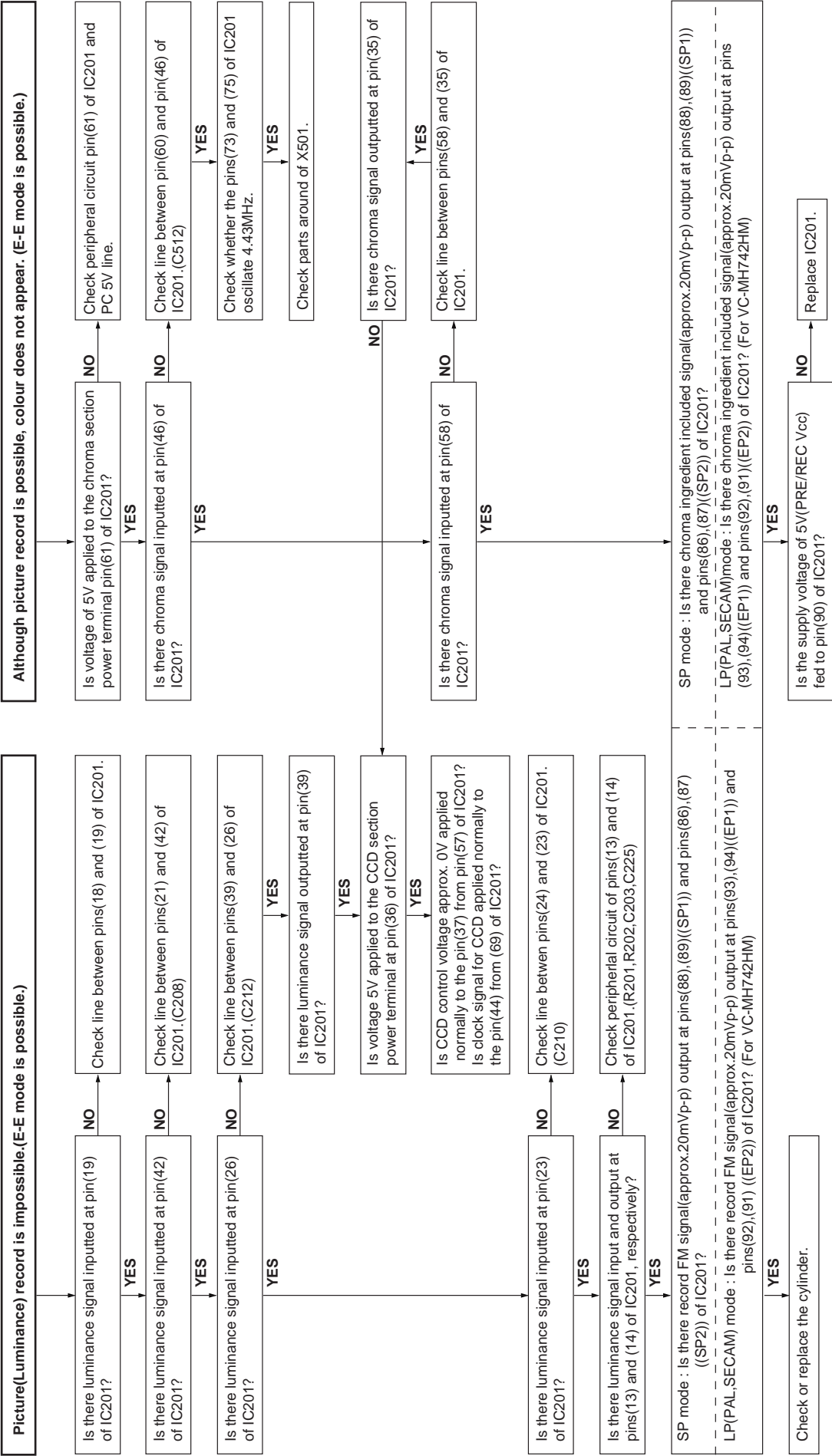
Capstan servo does not function.



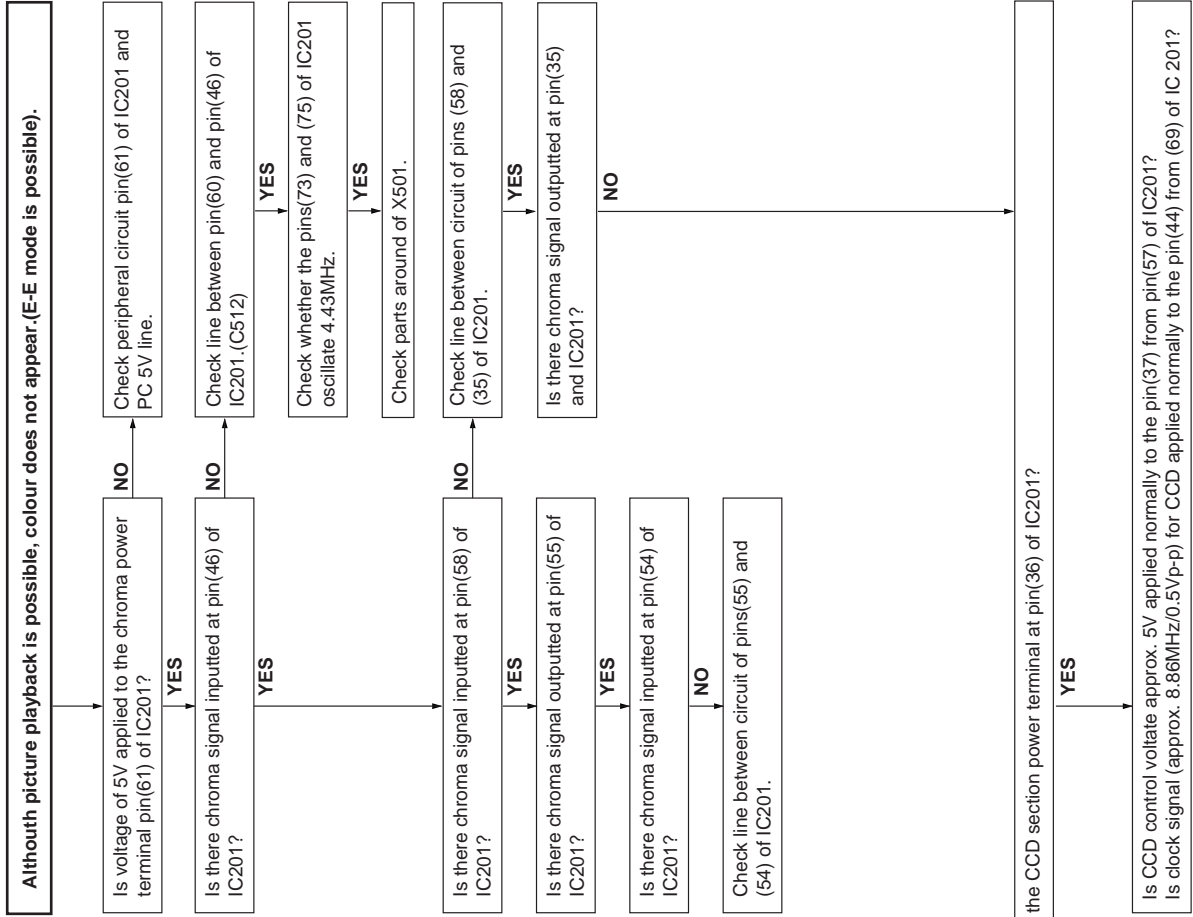
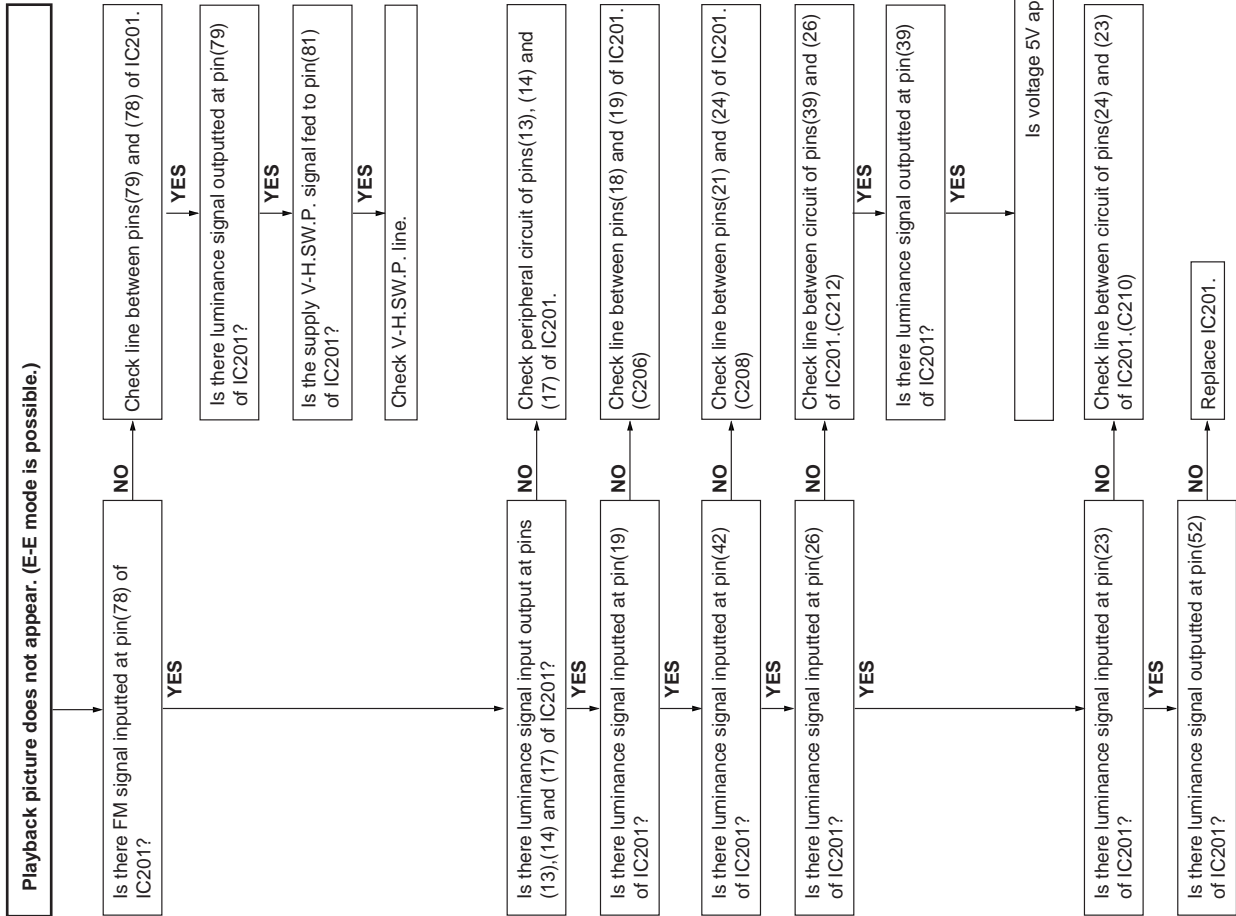
FLOW CHART NO.18 E-E MODE TROUBLESHOOTING



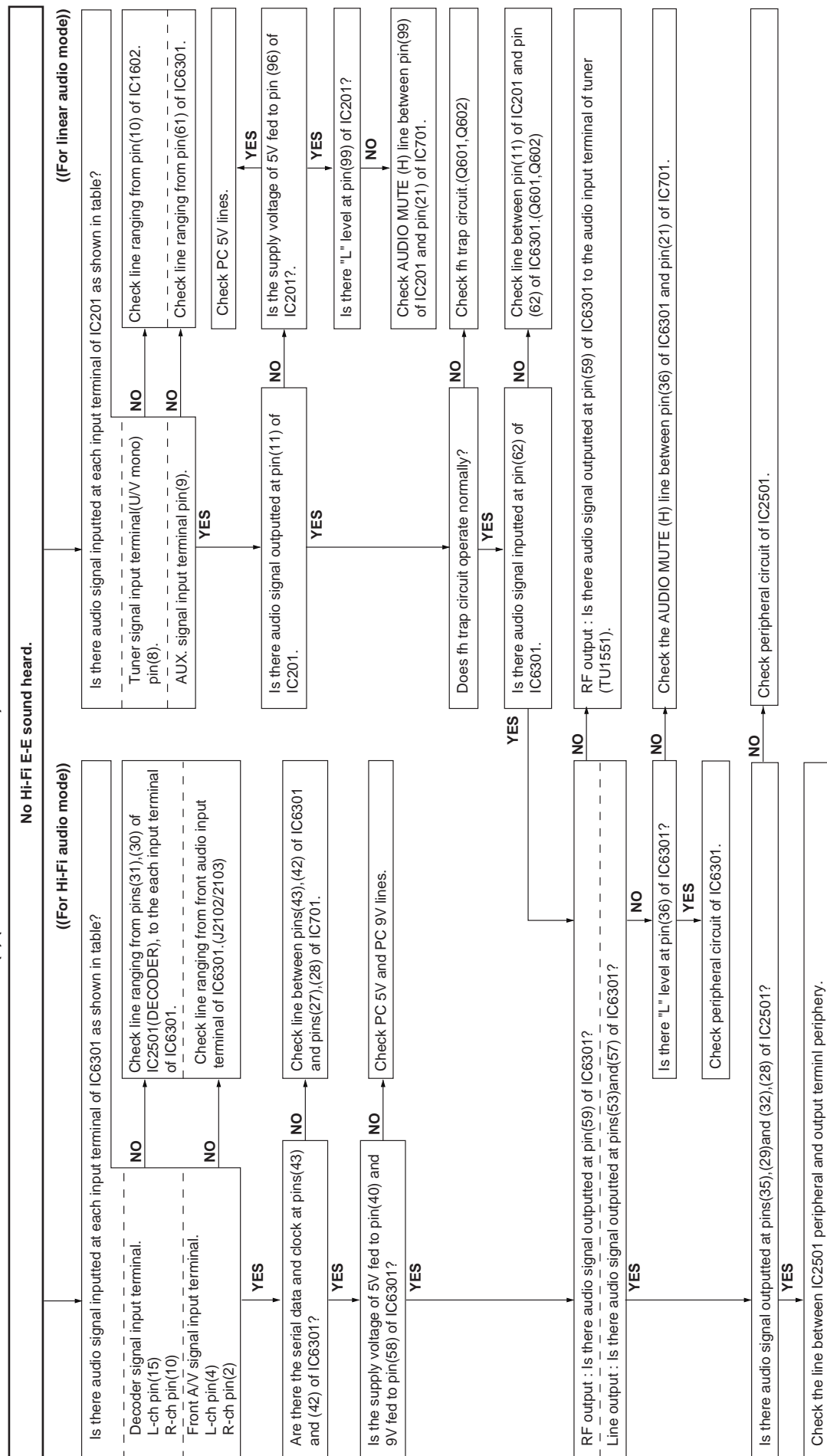
FLOW CHART NO.19 RECORDING MODE TROUBLESHOOTING



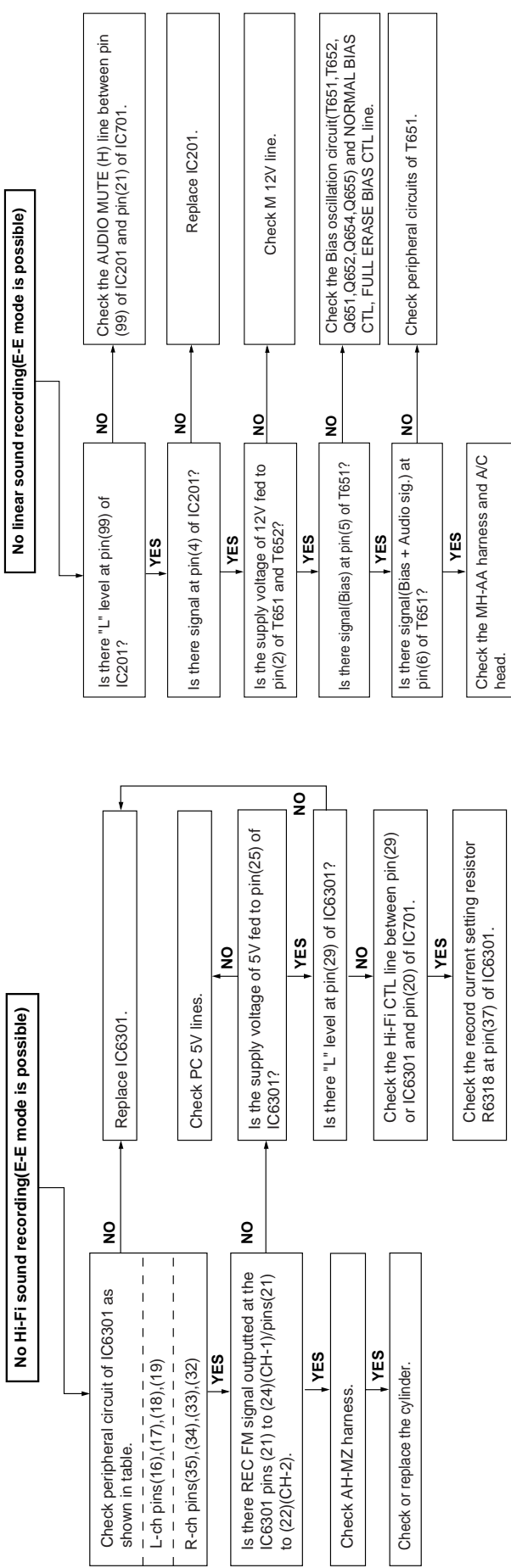
FLOW CHART NO.20 PLAYBACK MODE TROUBLESHOOTING



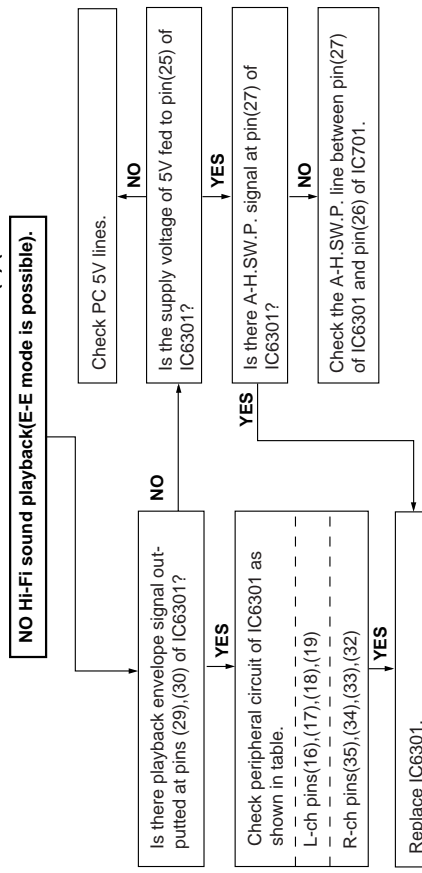
FLOW CHART NO.21 HI-FI SOUND MODE TROUBLESHOOTING(1) (For VC-MH722HM/MH732HM)



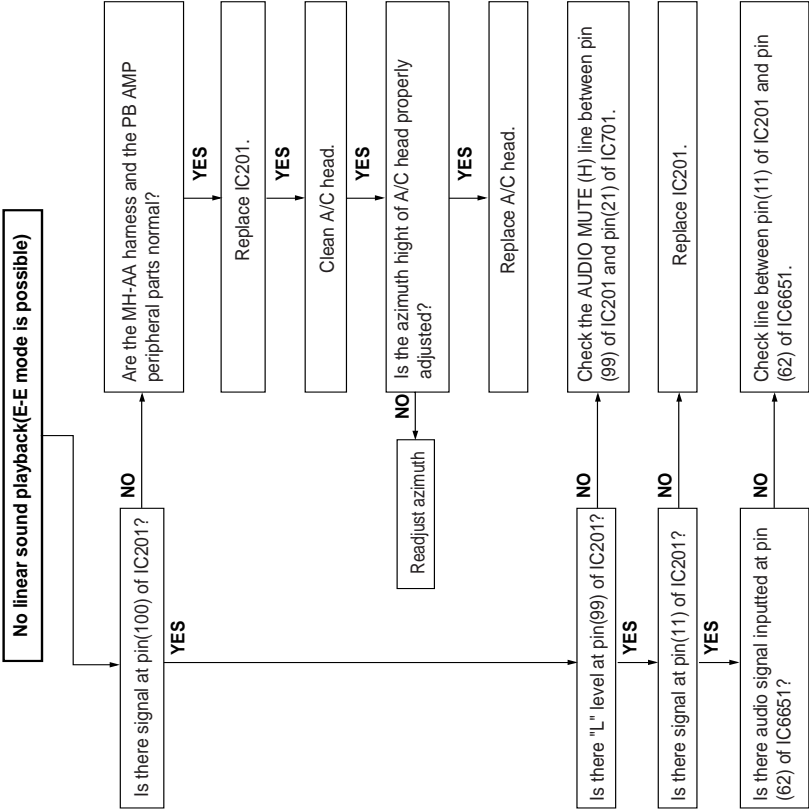
FLOW CHART NO.22 HI-FI SOUND MODE TROUBLESHOOTING(2) (For VC-MH722HM/MH732HM) FLOW CHART NO.24 LINEAR SOUND MODE TROUBLESHOOTING(1) (For VC-MH722HM/MH732HM)



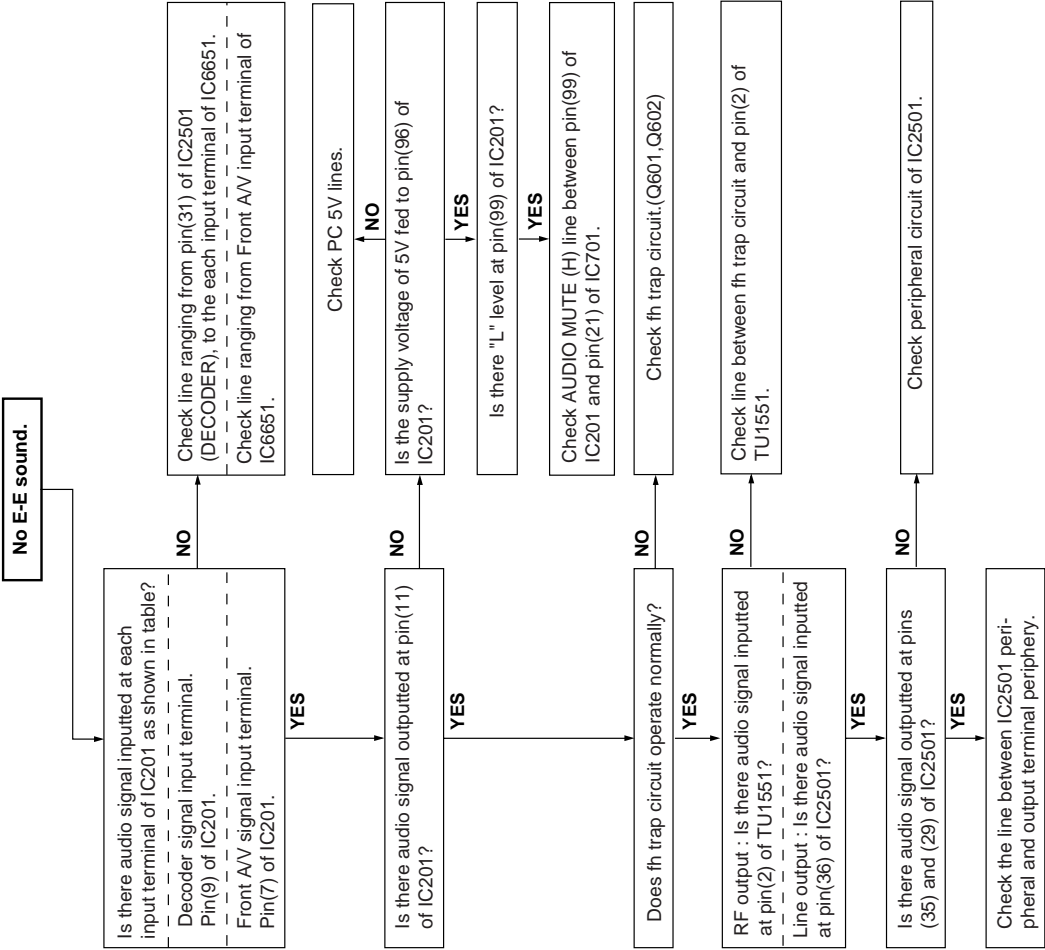
FLOW CHART NO.23 HI-FI SOUND MODE TROUBLESHOOTING(3) (For VC-MH722HM/MH732HM)



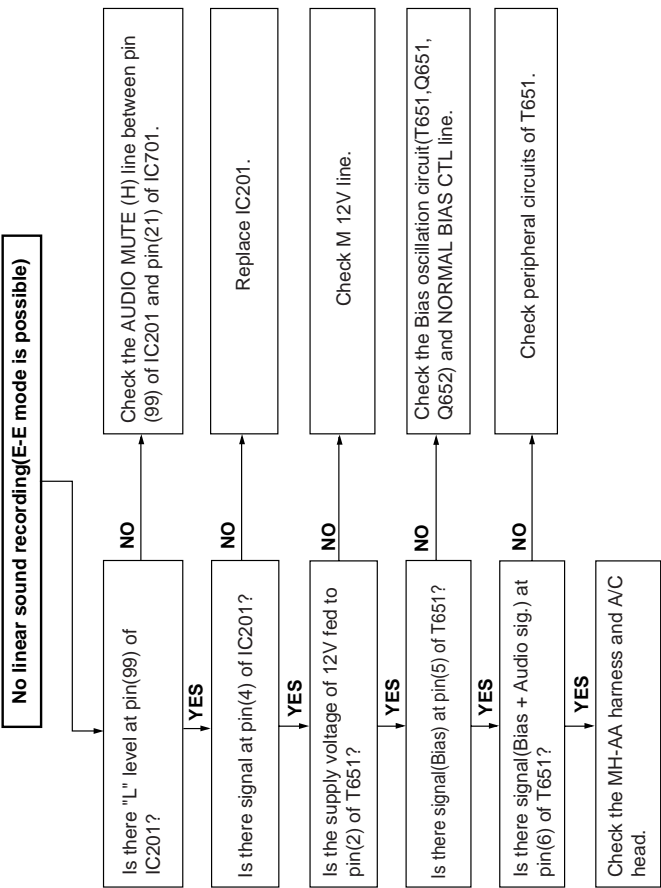
FLOW CHART NO.25 LINEAR SOUND MODE TROUBLESHOOTING(2) (For VC-MH722HM/MH732HM)



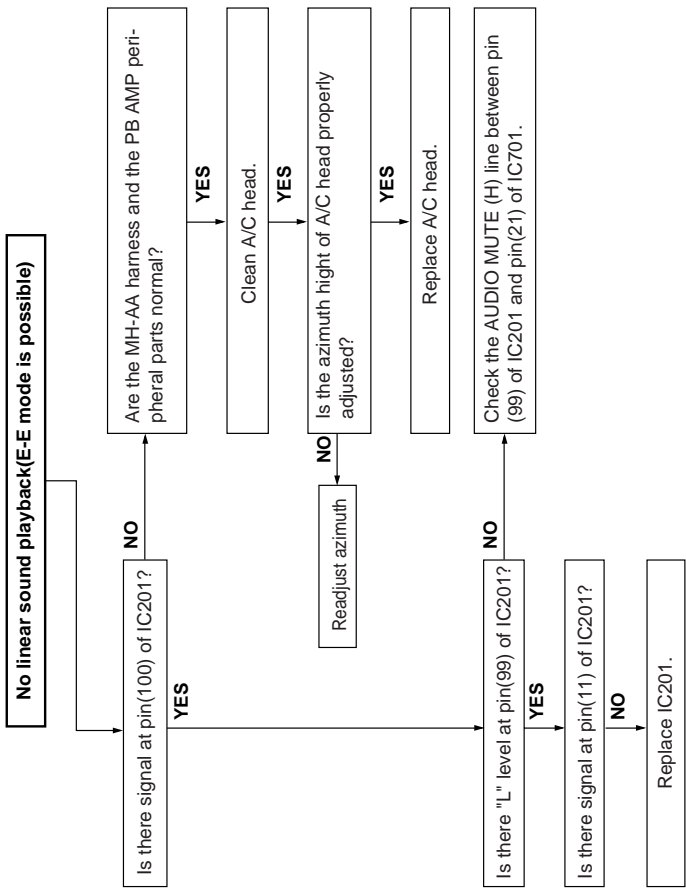
FLOW CHART NO.26 LINEAR SOUND MODE TROUBLESHOOTING(1) (For VC-M522HM)



FLOW CHART NO.27 LINEAR SOUND MODE TROUBLESHOOTING(2) (For VC-M522HM)

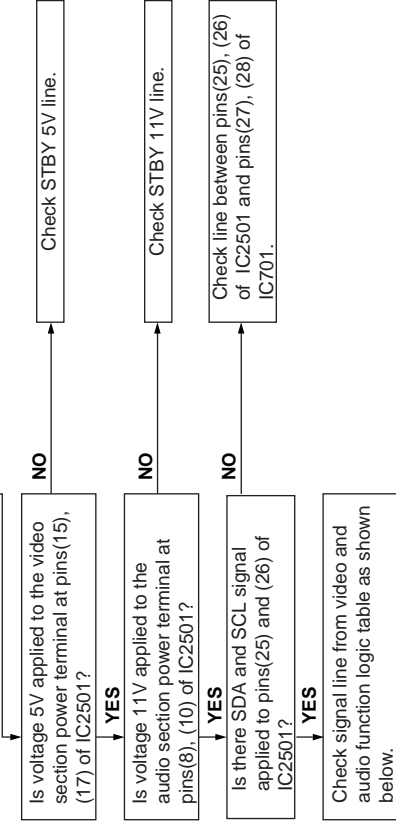


FLOW CHART NO.28 LINEAR SOUND MODE TROUBLESHOOTING(3) (For VC-M522HM)



FLOW CHART NO.29 DECODER TROUBLESHOOTING (VC-MH722HM/MH732HM)

Not output from 21pin connector in video and audio signal.

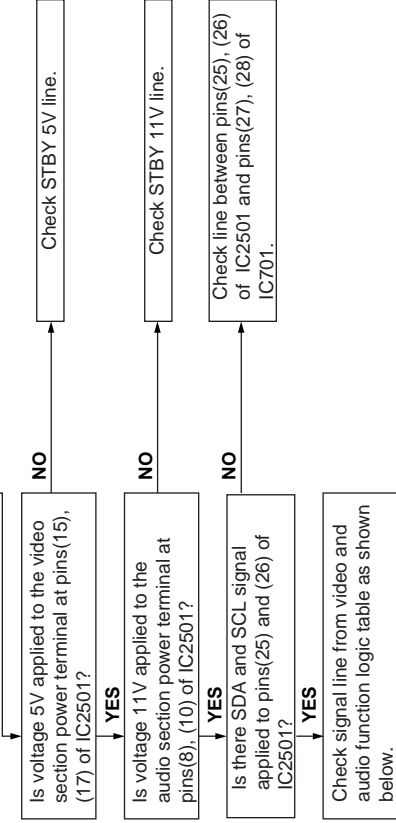


<Hi-Fi Audio Double scart>

MODE SELECT	INPUT SIGNAL	SIG. FLOW	DECODER CIRCUIT INPUT (switch)	OUTPUT	SIG. FLOW	OUTPUT SIGNAL
(A)	Pin47 of IC701(Y/C video output)	→	pin19	pin20	→	E1(L1) video output
(B)	E2(L2) video input	→	pin18	pin20	→	21PIN CONNECTOR
(A)	Pin20 of IC6401(Audio output L-ch)	→	pin36	pin35	→	E1(L1) audio output(L-ch)
(B)	E2(L2) audio input(L-ch)	→	pin1	pin35	→	21PIN CONNECTOR
(A)	Pin19 of IC6401(Audio output R-ch)	→	pin33	pin32	→	E1(L1) audio output(R-ch)
(B)	E2(L2) audio input(R-ch)	→	pin3	pin32	→	21PIN CONNECTOR
(A)	Tuner video output	→	pin16	pin23	→	E2(L2) video output
(B)	E1(L1) video input	→	pin14	pin23	→	21PIN CONNECTOR
(C)	Pin47 of IC701(Y/C video output)	→	pin19	pin29	→	E2(L2) audio output(L-ch)
(A)	MPX. output(L-ch)	→	pin9	pin29	→	21PIN CONNECTOR
(B)	E1(L1) audio input(L-ch)	→	pin5	pin29	→	21PIN CONNECTOR
(C)	Pin20 of IC6401(Audio output L-ch)	→	pin36	pin28	→	E2(L2) audio output(R-ch)
(A)	MPX. output(R-ch)	→	pin11	pin28	→	21PIN CONNECTOR
(B)	E1(L1) audio input(R-ch)	→	pin7	pin28	→	21PIN CONNECTOR
(C)	Pin19 of IC6401(Audio output R-ch)	→	pin33	pin21	→	Pin31 of IC201
(A)	E2(L2) video input	→	pin18	pin21	→	Y/C video input
(B)	E1(L1) video input	→	pin14	pin21	→	(Tuner/Aux. input)
(C)	Tuner video output	→	pin16	pin31	→	Pin15 of IC6651
(A)	E2(L2) audio input(L-ch)	→	pin1	pin31	→	Audio input(L-ch)
(B)	E1(L1) audio input(L-ch)	→	pin5	pin31	→	Audio input(L-ch)
(C)	MPX. output(L-ch)	→	pin9	pin30	→	Pin10 of IC6651
(A)	E2(L2) audio input(R-ch)	→	pin3	pin30	→	Audio input(R-ch)
(B)	E1(L1) audio input(R-ch)	→	pin7	pin30	→	Audio input(R-ch)
(C)	MPX. output(R-ch)	→	pin11	pin30	→	Audio input(R-ch)

FLOW CHART NO.30 DECODER TROUBLESHOOTING (VC-M522HM)

Not output from 21pin connector in video and audio signal.



<Hi-Fi Audio Double scart>

MODE SELECT	INPUT SIGNAL	SIG. FLOW	DECODER CIRCUIT INPUT (switch)	OUTPUT	SIG. FLOW	OUTPUT SIGNAL
(A)	Pin47 of IC701(Y/C video output)	→	pin19	pin20	→	E1(L1) video output
(B)	E2(L2) video input	→	pin18	pin20	→	21PIN CONNECTOR
(A)	Pin11 of IC201(Audio output)	→	pin36	pin35	→	E1(L1) audio output(L/R
(B)	E2(L2) audio input(L/R-ch)	→	pin1	pin35	→	-ch)21PIN CONNECTOR
(A)	Tuner video output	→	pin16	pin23	→	E2(L2) video output
(B)	E1(L1) video input	→	pin14	pin23	→	21PIN CONNECTOR
(C)	Pin47 of IC701(Y/C video output)	→	pin19	pin29	→	E2(L2) audio output(L/R
(A)	Tuner audio output(L-ch)	→	pin9	pin29	→	-ch)21PIN CONNECTOR
(B)	E1(L1) audio input(L/R-ch)	→	pin5	pin29	→	21PIN CONNECTOR
(C)	Pin11 of IC201(Audio output)	→	pin36	pin21	→	Pin31 of IC201
(A)	E2(L2) video input	→	pin18	pin21	→	Y/C video input
(B)	E1(L1) video input	→	pin14	pin21	→	(Tuner/Aux. input)
(C)	Tuner video output	→	pin16	pin31	→	Pin9 of IC201
(A)	E2(L2) audio input(L/R-ch)	→	pin1	pin31	→	Audio input
(B)	E1(L1) audio input(L/R-ch)	→	pin5	pin31	→	Audio input
(C)	Tuner audio output	→	pin9	pin31	→	Audio input

REPLACEMENT OF IC705(E²PROM)

«Servicing precautions»

When the IC705(E²PROM) has been replaced, make the following reprogramming.
Depending on models, the IC705(E²PROM) has been factory adjusted for it's memory function.
It's therefor necessary to reprogram the memory function for the model in question.
Note that the servo circuit requires readjustments for the slow and still modes.

1. Memory function reprogramming.

1. Check the power off.(Power is standby mode)
2. Make for moment short-circuit test point(P802), located at the front side on the main PWB.
Be sure that all the fluorescent display tube light up into the TEST mode.
3. Using the CHANNEL(+) AND (–) buttons, select the right function numbers from JP0 to JP39, which appear in the fluorescent display tube, referring to the E²PROM map.
Press the DISPLAY button to pickup the functions(ON) and the CLEAR button to discard the functions(OFF).
DISPLAY and CLEAR buttons, are located on the remote control unit.
 - * when the DISPLAY button has been pressed (ON), the memory function number starts flashing.
 - * when the CLEAR button has been pressed (OFF), the memory function number lights up.
4. Press the FF button on the remote control unit.
By doing, lower 7 of the 10 digits are displayed in hexadecimal notation.
5. Similarly to the above step 4, press the STOP button on the remote control unit.
By doing, upper 3 of the 10 digits are displayed in hexadecimal notation.
6. Example : "ON" and "OFF" are taken as "1" and "0" respectively.

The numbers JP0 to JP39 are divided into four groups and each group's setting is displayed in hexadecimal notation.

① When the press the FF button on the remote control unit.

By doing, lower 7 of the 10 digits are displayed in hexadecimal notation.

JP27	JP26	JP25	JP24	JP23	JP22	JP21	JP20	JP19	JP18	JP17	JP16	JP15	JP14	JP13	JP12	JP11	JP10	JP9	JP8	JP7	JP6	JP5	JP4	JP3	JP2	JP1	JP0
1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0
		↓				↓				↓			↓				↓				↓				↓		
		C				0				0			4				3				0				0		

② When the press the STOP button on the remote control unit.

By doing, upper 3 in the 10 digits are displayed in hexadecimal notation from the feature function.

Also recording level preset number selected from the ten keys on the remote control unit which appear in the fluorescent display tube, referring to the E²PROM map.

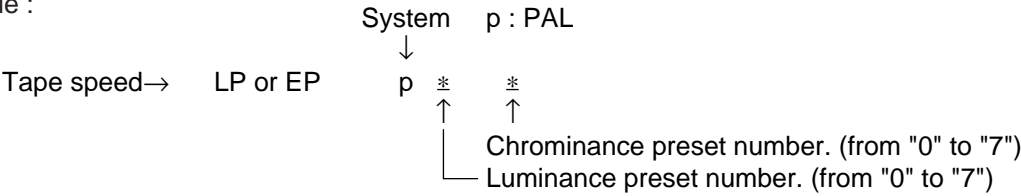
Out lights	SP	p	*	*	SP	p	*	*	"0" fixed displayed	JP39	JP38	JP37	JP36	JP34	JP33	JP32	JP31	JP30	JP29	JP28
blank		↑				↑				0	0	0	0	0	0	0	0	0	0	0
										↓				↓				↓		
										0				1				0		

③ When the press the REW button on the remote control unit.

By doing, recording level preset number selected from the ten keys on the remote control unit which appear in the fluorescent display tube, referring to the E²PROM map.

Out lights	LP	p	*	*	LP	p	*	*
blank		↑				↑		

2. Memory recording preset level reprogramming.
- 1. Similarly to the above step 1-1 and 2 the same operate.
 - 2. Using the CHANNEL (+) AND (-) buttons, select the right function numbers continued from recording preset number as has been JP0~JP39, which appear in the fluorescent display tube, referring to the E²PROM map.
 - 3. Press the STOP or REW button on the remote control unit.
By doing, recording level preset number selected by turn from the ten keys on the remote control unit, which appear in the fluorescent display tube referring to the E²PROM map.
 - 4. Example :



3. Finally make for a moment short-circuit test point(P802), both located at the front side on the main PWB to clear the TEST mode.

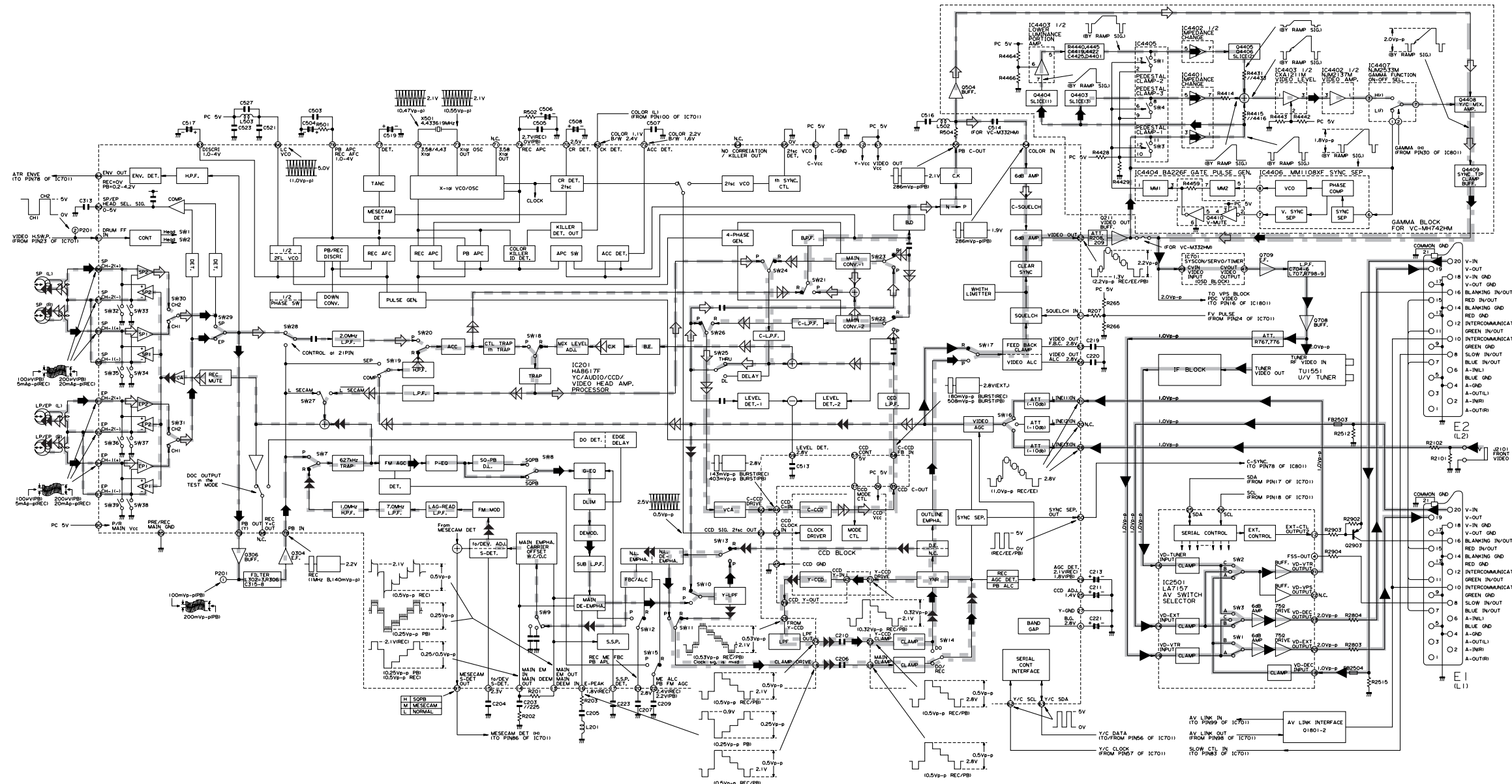
ROM MAP

	MODEL	MH732HM	MH722HM	M522HM
	PAL SP	43	43	43
	PAL LP	33	33	33
	NTSC SP	07	07	07
	NTSC EP	07	07	07
JP39	A.DUB	0	0	0
JP38	NOT SLOW ATR	0	0	0
JP37	S.PIC SERIAL	1	1	1
JP36	NTPB	1	1	1
JP35	NTSC SKEW	0	0	0
JP34	HEAD2	0	0	0
JP33	HEAD1	1	1	1
JP32	HEAD0	0	0	0
JP31	GAMMA	0	0	0
JP30	LOW PWR 5MIN	0	0	0
JP29	POS184	1	1	1
JP28	R/C CODE	0	0	0
JP27	DNR	0	0	0
JP26	POST CODE	1	1	1
JP25	SAT CTL	1	0	0
JP24	AV LINK /16:9	0	0	0
JP23	Hi-Fi	1	1	0
JP22	SORT/CLOCK	1	1	1
JP21	DECODER	1	1	1
JP20	SURROUND	0	0	0
JP19	IGR	0	0	0
JP18	NICAM	1	1	0
JP17	G-CODE1	1	1	1
JP16	G-CODE0	1	1	1
JP15	OEM	0	0	0
JP14	LP	1	1	1
JP13	F-AV	1	1	1
JP12	2 SCART	1	1	1
JP11	RF OUT OFF	0	0	0
JP10	TUNER2	0	0	0
JP9	TUNER1	1	1	1
JP8	TUNER0	1	1	1
JP7	SYSTEM1	0	0	0
JP6	SYSTEM0	0	0	0
JP5	SAT CH VPS OFF	0	0	0
JP4	LOW POWER	1	1	1
JP3	SPATIALIZER	0	0	0
JP2	VPS/PDC	1	1	1
JP1	COLOR1	0	0	0
JP0	COLOR0	0	0	0
	DISPLAY	3226E77314	3224E77314	3224637314

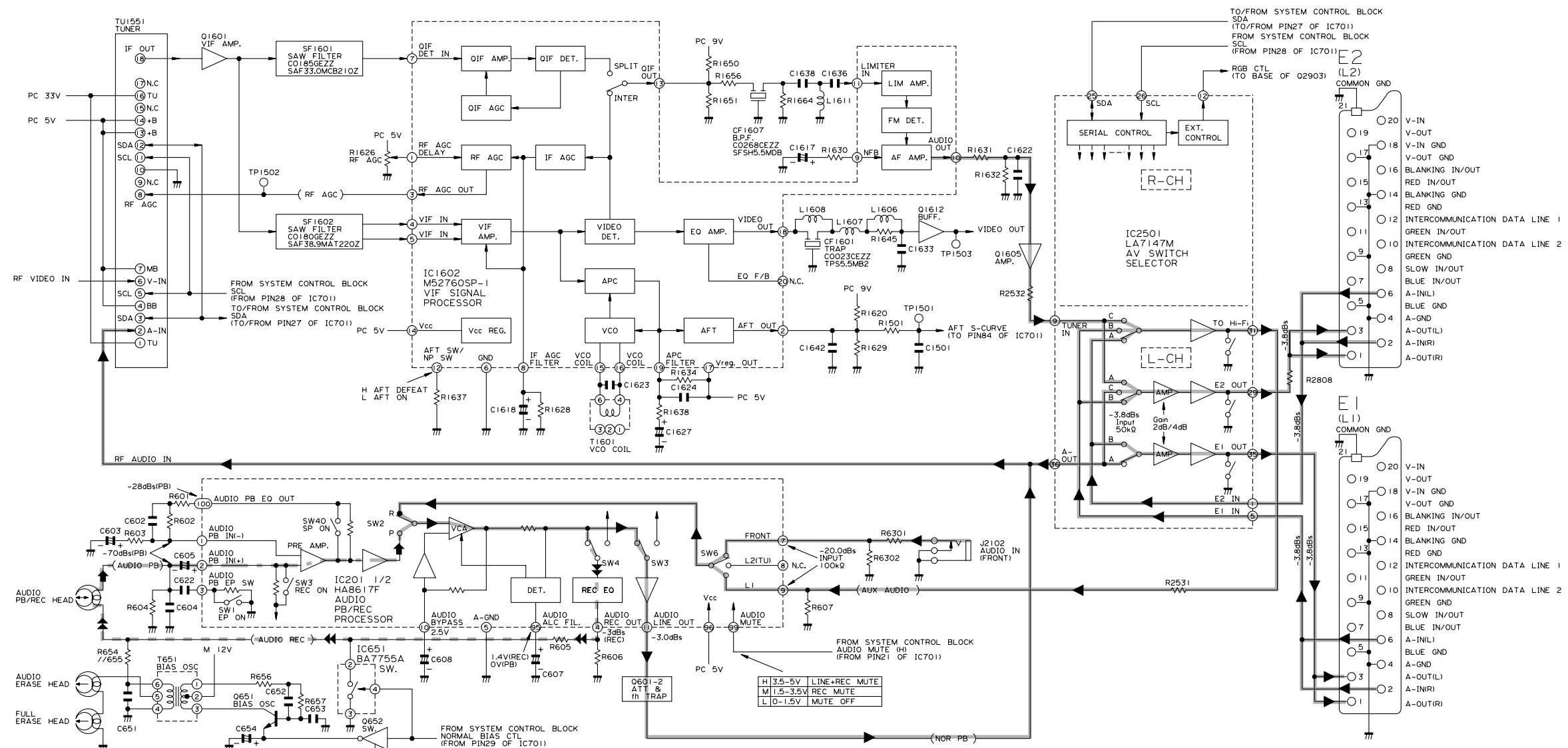
0:LIGHT UP 1:FLASHING

SIGNAL FLOW BLOCK DIAGRAM

EE Signal PB Luminance Signal REC Luminance Signal
PB Chrominance Signal REC Chrominance Signal



◀ EE Signal — · — · ▶ PB Signal - - - - ◀◀ REC Signal



VC-M522HM
VC-MH722HM
VC-MH732HM

◀ EE Signal — · — · ◀ PB Signal - - - - ◀◀ REC Signal





SCHEMATIC DIAGRAM

IMPORTANT SAFETY NOTICE:

BE SURE TO USE GENUINE PARTS FOR SECURING THE SAFETY AND RELIABILITY OF THE SET.

PARTS MARKED WITH " ⚠ " AND PARTS SHADED (IN BLACK) ARE ESPECIALLY IMPORTANT FOR MAINTAINING THE SAFETY AND PROTECTING ABILITY OF THE SET.

BE SURE TO REPLACE THEM WITH PARTS OF SPECIFIED PART NUMBER.

SAFETY NOTES:

1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.
2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

NOTES:

1. The unit of resistance "ohm" is omitted ($k=1000$ ohm, $M=1$ Meg ohm).
2. All resistors are 1/8 watt, unless otherwise noted.
3. The unit of capacitance "F" is omitted ($\mu=\mu F$, $p=\mu\mu F$).
4. The values in parentheses are the ones in the PB mode; the values without parentheses are the ones in the REC mode.

VOLTAGE MEASUREMENT CONDITIONS:

1. DC voltages are measured between points indicated and chassis ground by VTVM, with AC230V~240V/50Hz supplied to unit and all controls are set to normal viewing picture unless otherwise noted.
2. Voltages are measured with 10000 μV B & W or colour noted.

WAVEFORM MEASUREMENT CONDITIONS:

10000 μV 87.5 percent modulated colour bar signal is fed into tuner.

CAUTION:

This circuit diagram is original one. Therefore there may be a slight difference from yours.

9. SCHEMATIC DIAGRAM AND PWB FOIL PATTERN
MAIN CIRCUIT(1) (VC-M522HM/MH722HM)

H

G

F

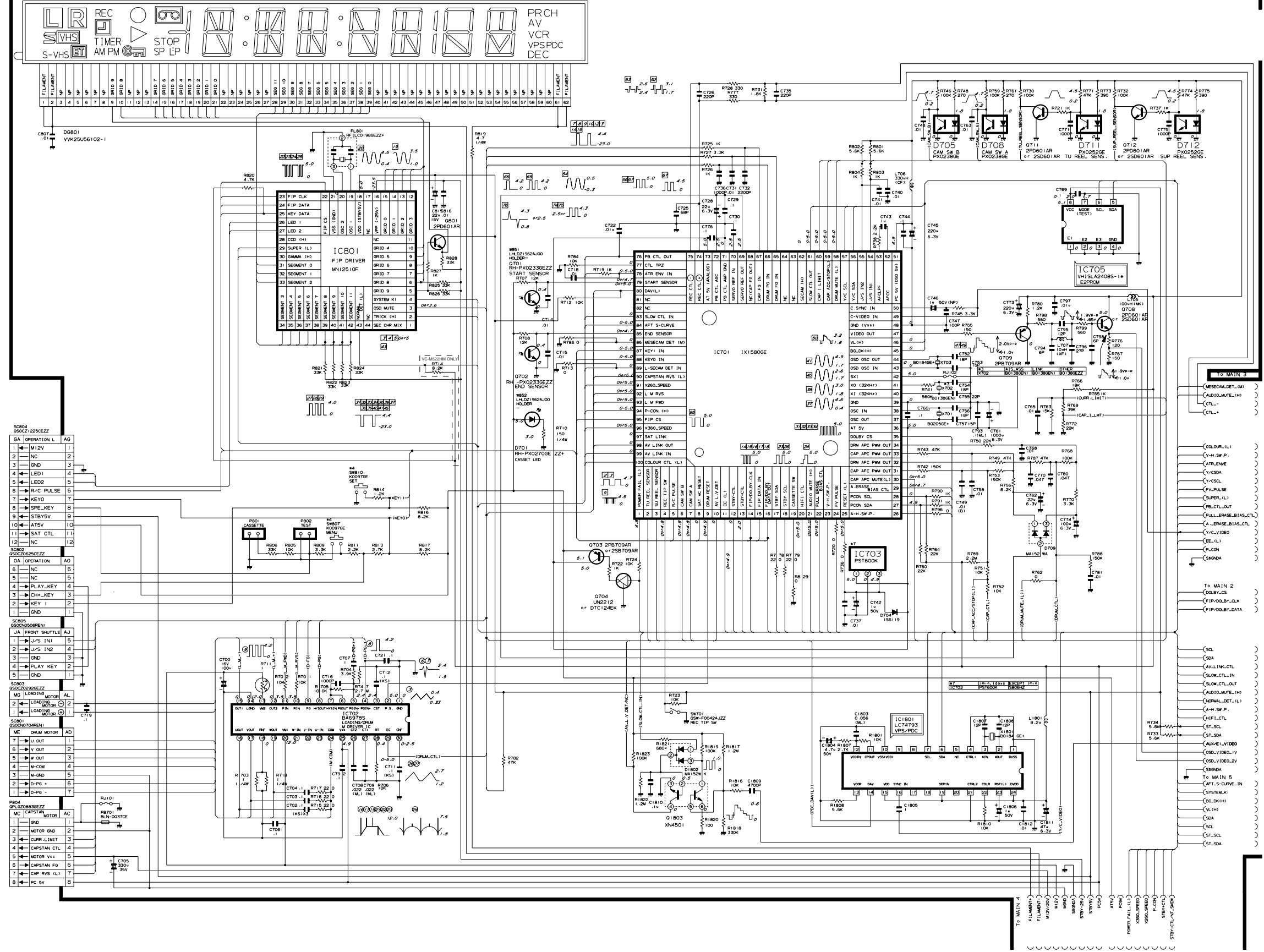
E

D

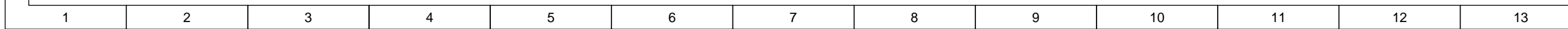
C

B

A



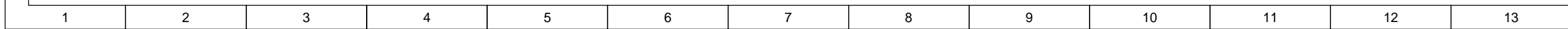
A	B	C	D	E	F	G	H
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67

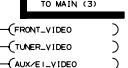
VC-M522HM
VC-MH722HM
VC-MH732HM

A
B
C
D
E
F
G
H



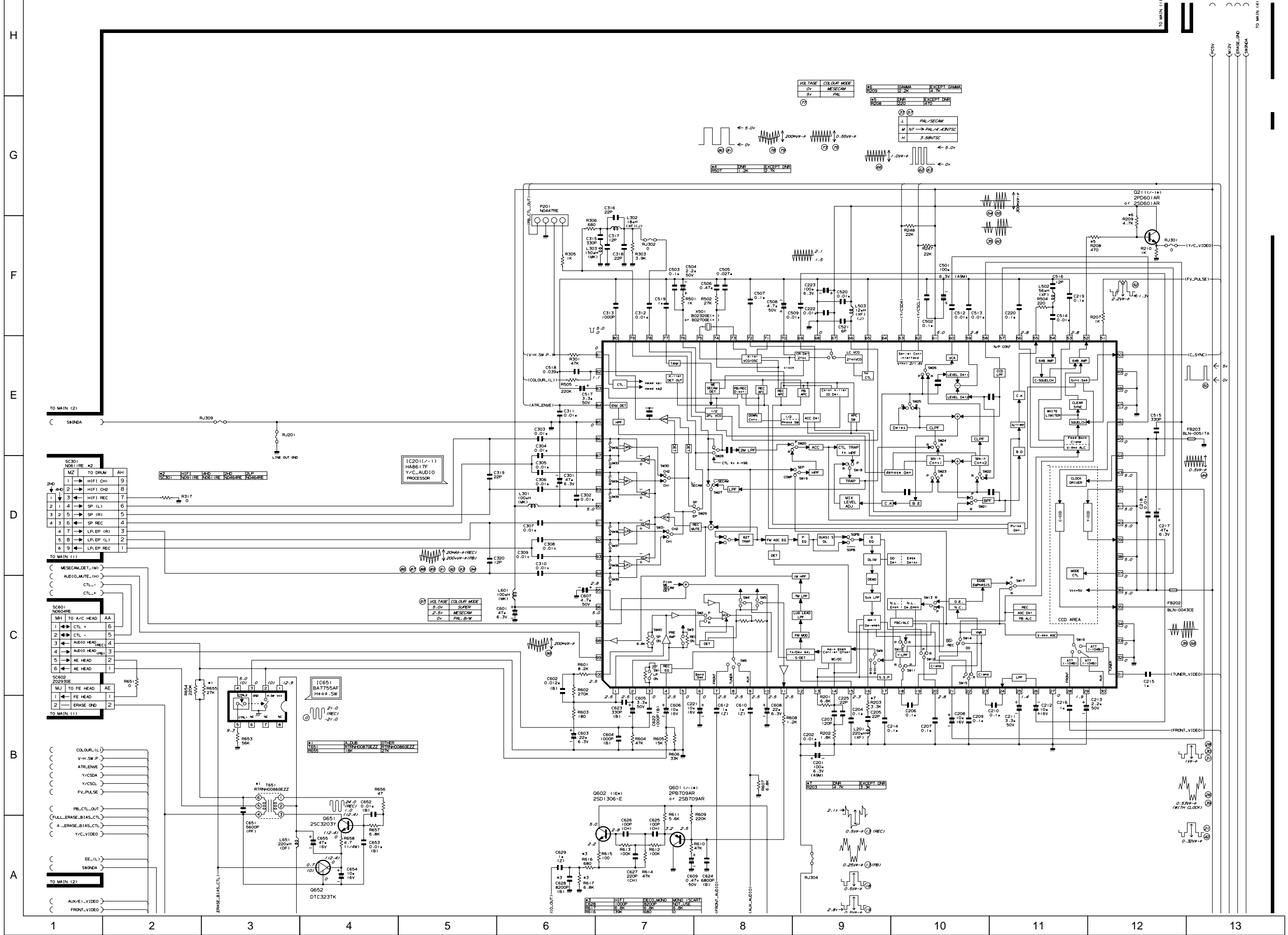
69

A



71

MAIN CIRCUIT(3) (VC-M522HM)



* VOLTAGE MEASUREMENT MODE
PB Parentes ()
REC ... Without Parentes

A

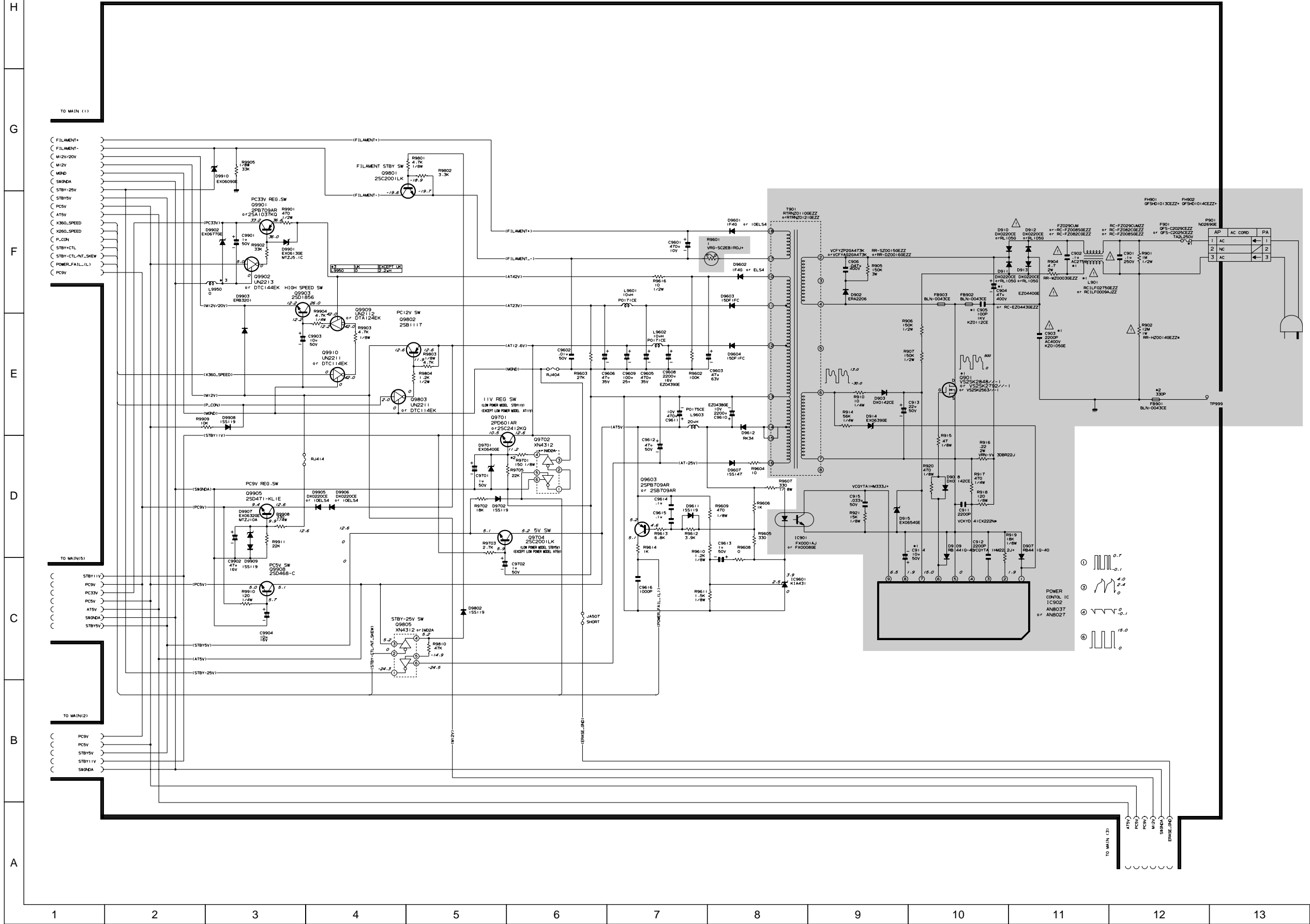


75

VC-M522HM
VC-MH722HM
VC-MH732HM

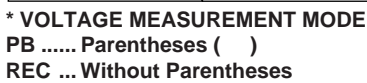
VC-M522HM
VC-MH722HM
VC-MH732HM

MAIN CIRCUIT(4)



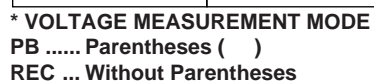
* VOLTAGE MEASUREMENT MODE
PB Parentheses ()
REC ... Without Parentheses

A	B	C	D	E	F	G	H
---	---	---	---	---	---	---	---

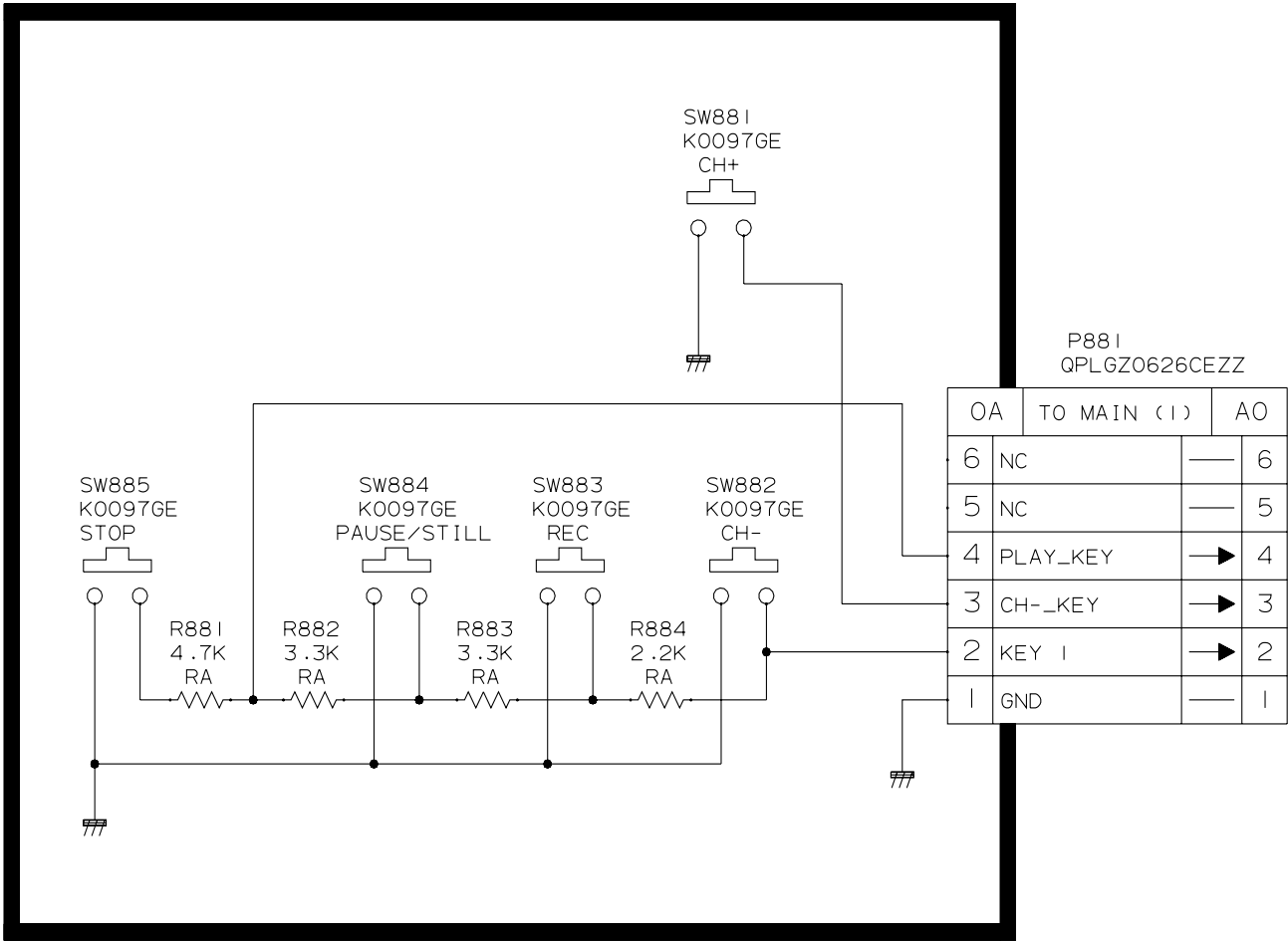


1

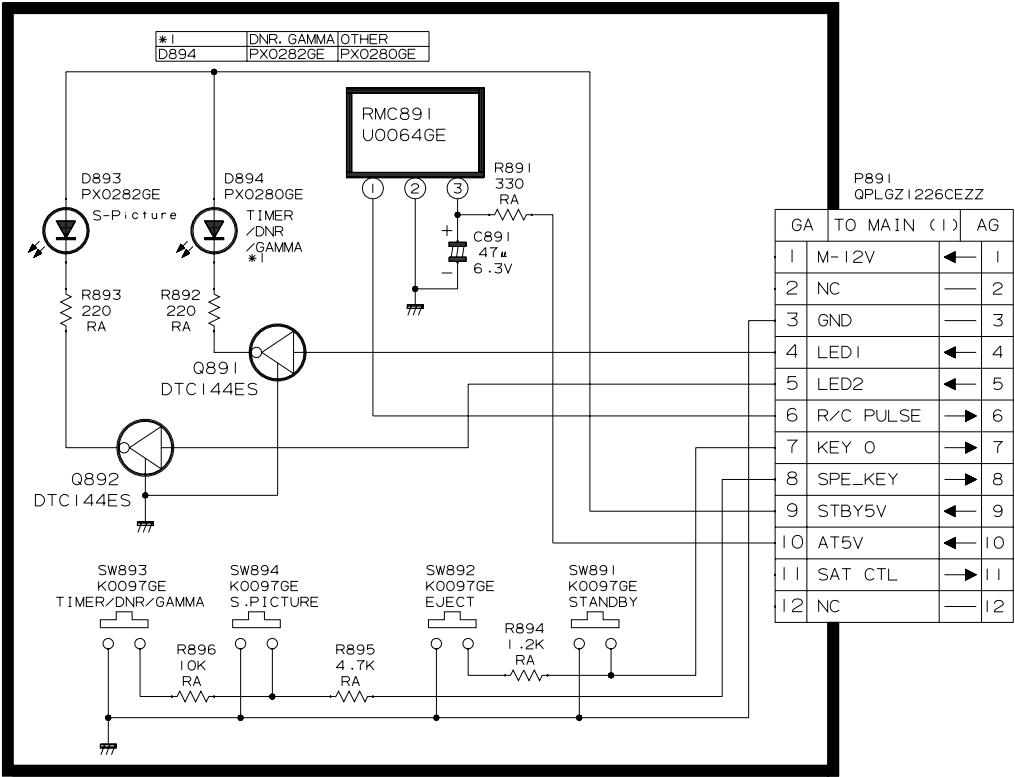




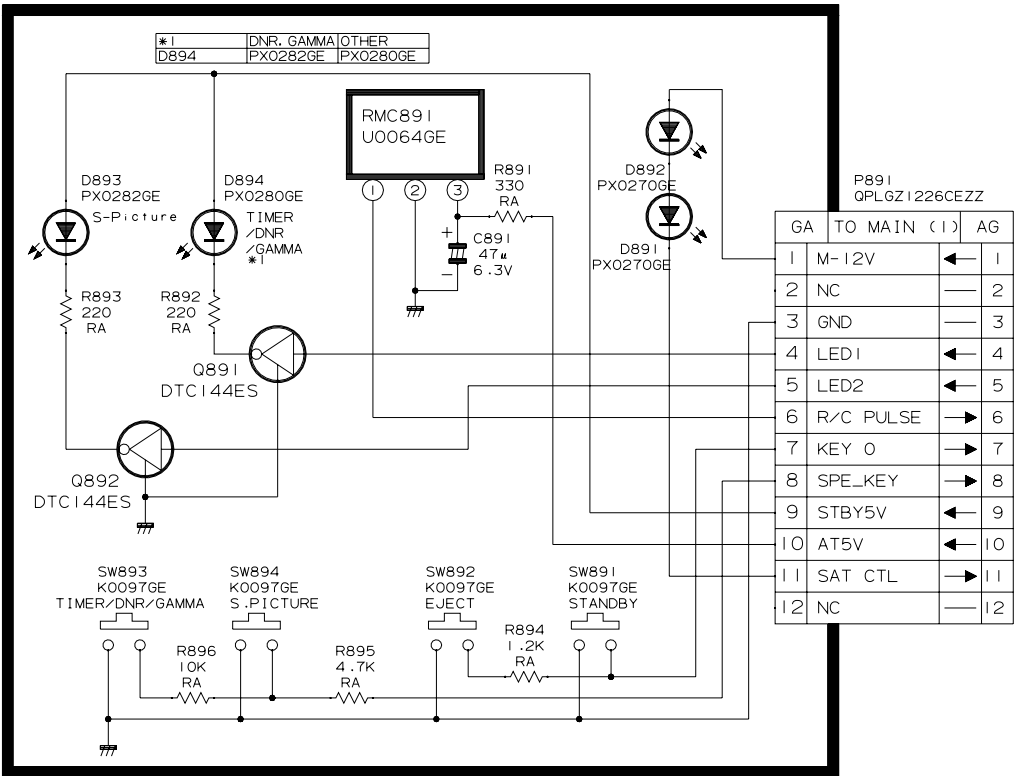
OPERATION (1) CIRCUIT



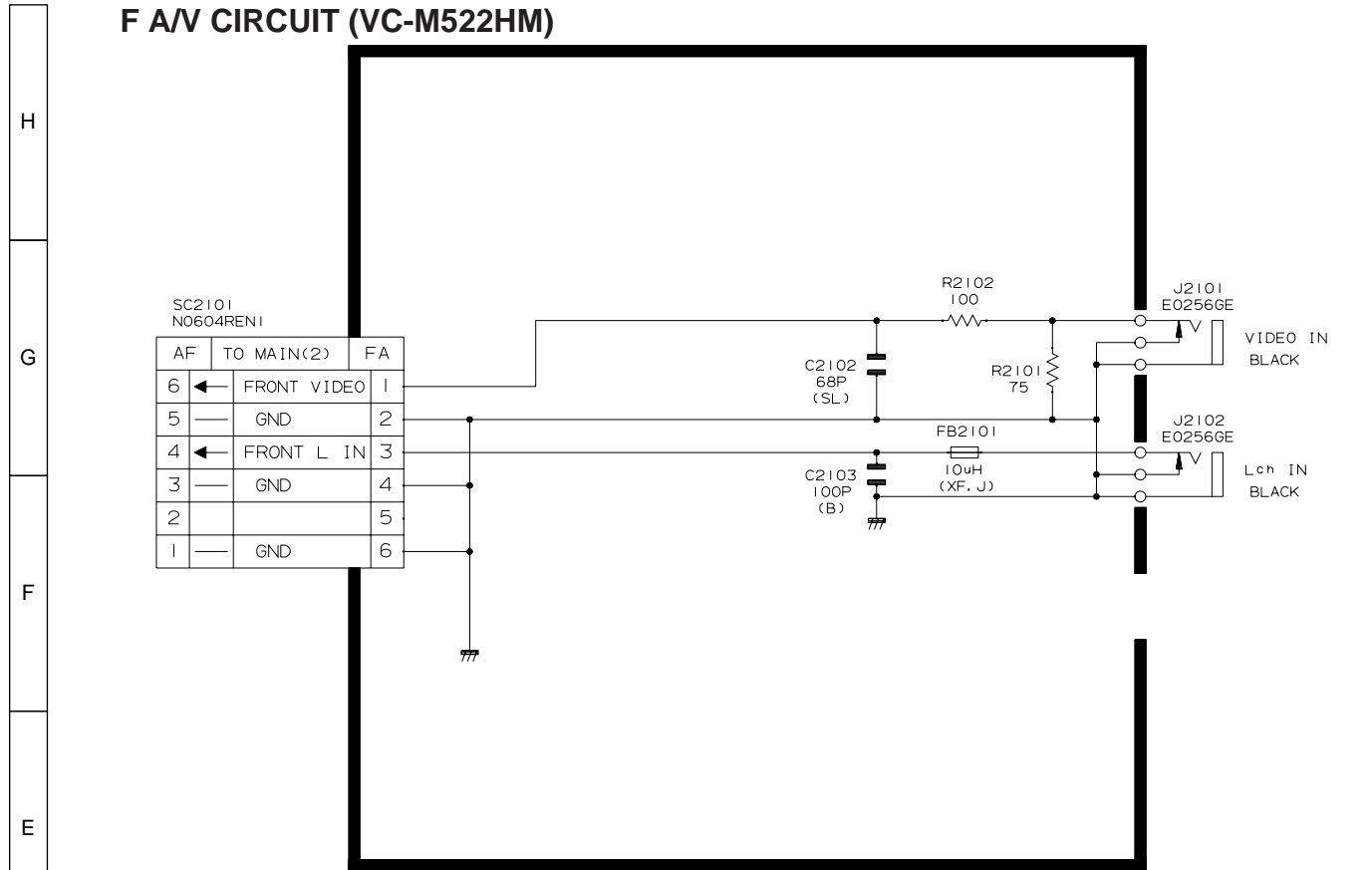
OPERATION (2) CIRCUIT (VC-M522HM/MH722HM)



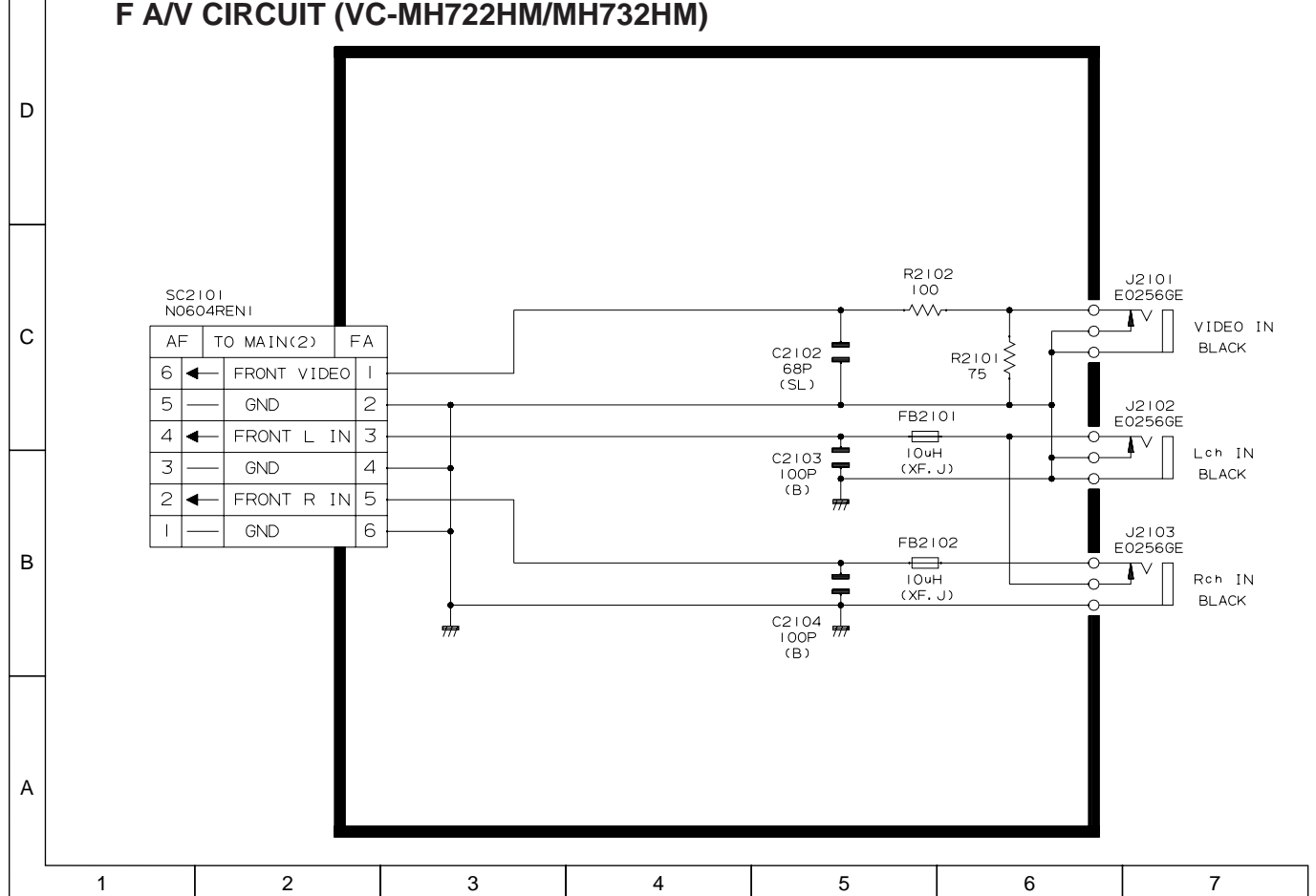
OPERATION (2) CIRCUIT (VC-MH732HM)



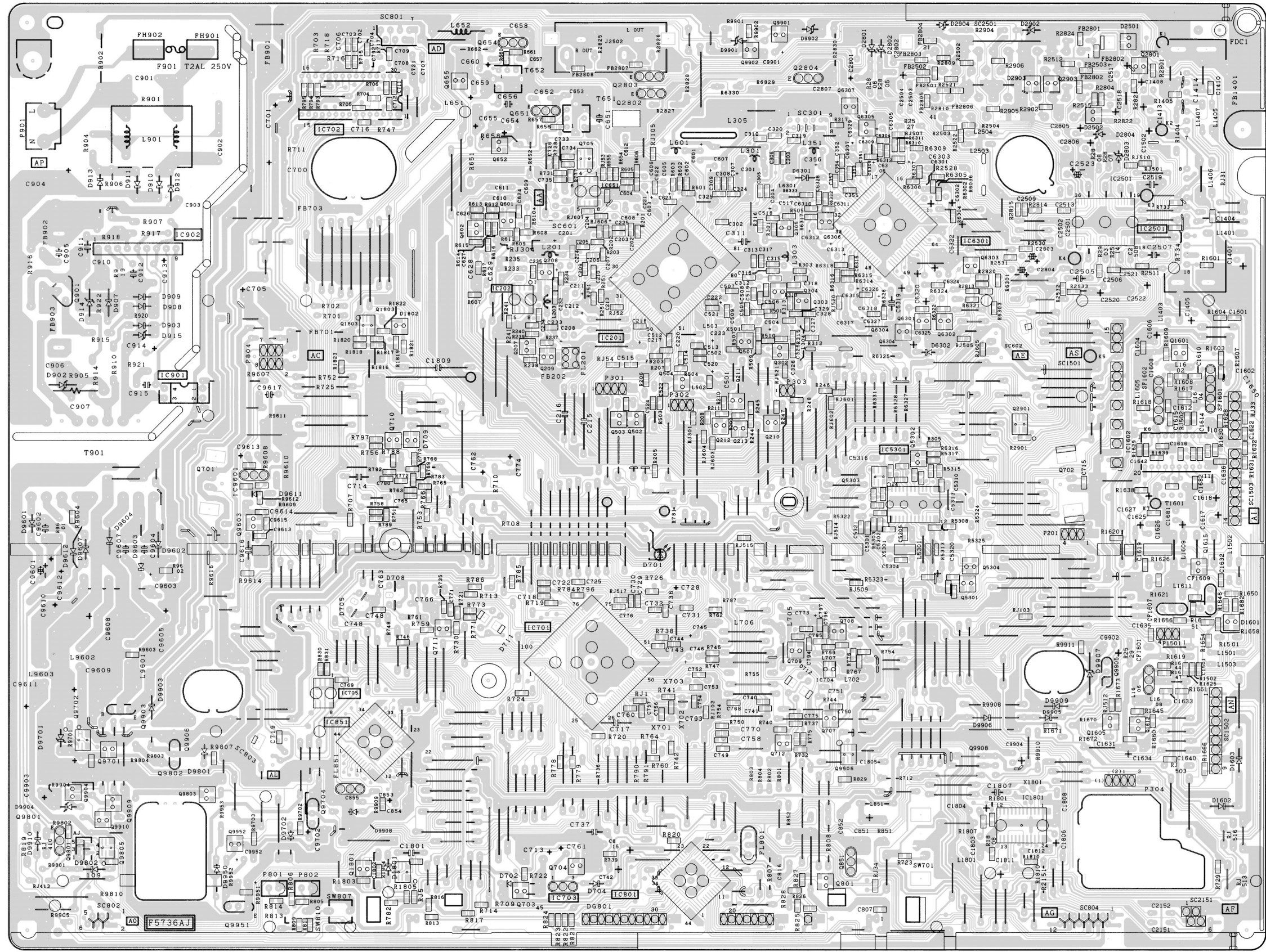
F A/V CIRCUIT (VC-M522HM)



F A/V CIRCUIT (VC-MH722HM/MH732HM)




A	B	C	D	E	F	G	H
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10. REPLACEMENT PARTS LIST

PARTS REPLACEMENT

Parts marked with "  " are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

- | | |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. NO. |
| 3. PART NO. | 4. DESCRIPTION |
| 5. PRICE CODE | |

HOW TO IDENTIFY CHIP TRANSISTORS AND DIODES BY ITS MARKING

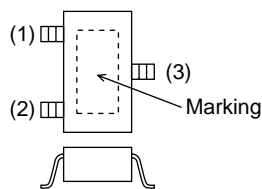


Fig. 1

Package	Marking	Parts No.	Code
Fig. 1	FQ	VS2SA1037KQ-1	AA
Fig. 1	BQ	VS2SC2412KQ-1	AA
Fig. 1	16	VSDTA144EK/-1	AC
Fig. 1	15	VSDTA124EK/-1	AB
Fig. 1	25	VSDTC124EK/-1	AB

MARK ★: SPARE PARTS-DELIVERY SECTION

Ref. No.	Part No.	★	Description	Code
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PRINTED WIRING BOARD ASSEMBLIES

(NOT REPLACEMENT ITEM)

DUNTK5527TEV7	-	NICAM/IGR Unit (VC-MH722HM/MH732HM)	—
DUNTK5736TEVB	-	Main Unit (VC-M522HM)	—
DUNTK5736TEV2	-	Main Unit (VC-MH722HM)	—
DUNTK5736TEV3	-	Main Unit (VC-MH732HM)	—
DUNTK5737TEV1	-	OPERATION (1) Unit	—
DUNTK5738TEV2	-	OPERATION (2) Unit (VC-M522HM/MH722HM)	—
DUNTK5738TEV3	-	OPERATION (2) Unit (VC-MH732HM)	—
DUNTK5739TEV2	-	F A/V Unit (VC-M522HM)	—
DUNTK5739TEV1	-	F A/V Unit (VC-MH722HM/MH732HM)	—

DUNTK5527TEV7 (VC-MH722HM/MH732HM)
NICAM/IGR Unit

INTEGRATED CIRCUITS

IC1701	VHIMSP3417D-1	U	I.C.	BA
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Ref. No.	Part No.	★	Description	Code
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TRANSISTORS

Q1705	VS2PB709AR/-1	J	Transistor	AB
Q1706	VS2PB709AR/-1	J	Transistor	AB

CRYSTALS

X1701	RCRSB0249GEZZ	J	Crystal	AF
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COILS

L1703	VP-XF100J0000	J	Peaking	10μH	AB
L1704	VP-XF100J0000	J	Peaking	10μH	AB

CAPACITORS

C1701	VCCCCY1HH220J	J	22p	50V	Ceramic	AA
C1702	VCCCCY1HH470J	J	47p	50V	Ceramic	AA
C1704	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1705	VCEA9M1CW106M	J	10	16V	Electrolytic	AB
C1706	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1707	VCEA9M1CW106M	J	10	16V	Electrolytic	AB
C1708	VCEA9M0JW226M	J	22	6.3V	Electrolytic	AB
C1709	VCEA9M1AW226M	U	22	10V	Electrolytic	AA
C1710	VCCCCY1HH1R0C	J	1p	50V	Ceramic	AA
C1711	VCCCCY1HH1R0C	J	1p	50V	Ceramic	AA
C1712	VCKYD41CY103N	J	0.01	16V	Ceramic	AA
C1713	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1714	VCEA9M1HW105M	J	1	50V	Electrolytic	AB
C1715	VCKYD41CY103N	J	0.01	16V	Ceramic	AA
C1718	VCEA9M0JW226M	J	22	6.3V	Electrolytic	AB
C1719	VCKYCY1HF103Z	J	0.01	50V	Ceramic	AA
C1720	VCCCCY1HH470J	J	47p	50V	Ceramic	AA
C1721	VCEA9M1AW476M	U	47	10V	Electrolytic	AA
C1722	VCEA9A0JW476M	J	47	6.3V	Electrolytic	AB
C1723	VCEA9M1CW106M	J	10	16V	Electrolytic	AB
C1730	VCEA9M1CW106M	J	10	16V	Electrolytic	AB
C1731	VCEA9M1CW106M	J	10	16V	Electrolytic	AB
C1733	VCKYCY1HB392K	J	3900p	50V	Ceramic	AA
C1734	VCKYCY1HB221K	J	220p	50V	Ceramic	AA
C1735	VQYTA1HM122J	J	1200p	50V	Mylar	AA
C1736	VCKYCY1HB392K	J	3900p	50V	Ceramic	AA
C1737	VCKYCY1HB221K	J	220p	50V	Ceramic	AA
C1738	VCKYCY1HB122K	J	1200p	50V	Ceramic	AA

RESISTORS

R1703	VRD-RA2BE473J	J	47k	1/8W	Carbon	AA
R1704	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1705	VRS-CY1JF101J	J	100	1/16W	Metal Oxide	AA
R1706	VRS-CY1JF222J	J	2.2k	1/16W	Metal Oxide	AA
R1707	VRD-RA2BE222J	J	2.2k	1/8W	Carbon	AA
R1714	VRS-CY1JF102J	J	1k	1/16W	Metal Oxide	AA
R1715	VRS-CY1JF000J	J	00	1/16W	Metal Oxide	AA
R1720	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1721	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1722	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1723	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA
R1724	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA
R1725	VRS-CY1JF103J	J	10k	1/16W	Metal Oxide	AA

MISCELLANEOUS PARTS

SC1701	QPLGN0241FJ00	J	Plug, 9pin (NA)	AG
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DUNTK5736TEVB (VC-M522HM)
DUNTK5736TEV2 (VC-MH722HM)
DUNTK5736TEV3 (VC-MH732HM)
Main Unit

TUNER

TU1551	VTUATMCB1-101	U	Tuner	BC
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INTEGRATED CIRCUITS

IC201	VHiHA8617F/-1	U	I.C.	AW
IC651	VHiBA7755AF1E	J	BA7755AF	AE
IC701	RH-iX1580GEZZ	U	I.C.	BA

Ref. No.	Part No.	★	Description	Code
IC702	VHiBA6978S/-1	U	I.C.	AL
IC703	VHiPST600K/-1	J	IC-PST600K-2	AE
IC705	VHiSLA2408S-1	U	I.C.	AF
IC801	VHiMN12510F-1	J	MN12510F	AM
IC851	RH-iX1602UMZZ	U	I.C. (VC-MH732HM)	BA
△ IC902	VHiAN8037//1	U	I.C.	AL
IC1602	VHiM52760SP-1	J	M52760SP	AK
IC1801	VHiLC74793J1E	U	I.C.	AS
IC2501	VHiLA7148M/-1	U	LA7148M-TRM (VC-M522HM)	AL
IC2501	VHiLA7147M/-1	U	LA7147M-TRM (VC-MH722HM/MH732HM)	AM
IC6301	VHiAN3651FB-1	U	I.C. (VC-MH722HM/MH732HM)	AR
IC9601	VHiKiA431//1	J	KIA431	AE

TRANSISTORS

Q211	VS2PD601AR/-1	J	Transistor	AB
Q501	VS2PD601AR/-1	J	Transistor (VC-MH722HM/MH732HM)	AB
Q601	VS2PB709AR/-1	J	Transistor	AB
Q602	VS2SD1306-E1E	J	Transistor	AD
Q651	VS2SC3203Y/-1	J	Transistor	AB
Q652	VSDTC323TK/-1	J	Transistor	AB
Q703	VS2PB709AR/-1	J	Transistor	AB
Q704	VSUN2212//1	J	Transistor	AA
Q708	VS2PD601AR/-1	J	Transistor	AB
Q709	VS2PB709AR/-1	J	Transistor	AB
Q711	VS2PD601AR/-1	J	Transistor	AB
Q712	VS2PD601AR/-1	J	Transistor	AB
Q801	VS2PD601AR/-1	J	Transistor	AB
Q851	VS2SD468-C/-1	J	Transistor (VC-MH732HM)	AD
△ Q901	VS2SK2848//1	J	Transistor	AH
Q1601	VS2SC2735//1E	J	Transistor	AC
Q1605	VS2PD601AR/-1	J	Transistor (VC-M522HM)	AB
Q1612	VS2PD601AR/-1	J	Transistor	AB
Q1615	VS2PD601AR/-1	J	Transistor (VC-MH722HM/MH732HM)	AB
Q1803	VSXN4501///-1	J	Transistor	AB
Q2903	VS2PB709AR/-1	J	Transistor	AB
Q6301	VSDTC323TK/-1	J	Transistor (VC-MH722HM/MH732HM)	AB
Q6302	VSDTC323TK/-1	J	Transistor (VC-MH722HM/MH732HM)	AB
Q6303	VSDTC323TK/-1	J	Transistor (VC-MH722HM/MH732HM)	AB
Q6304	VSUN2111///-1	J	Transisto (VC-MH722HM/MH732HM)	AA
Q6305	VSDTC323TK/-1	J	Transistor (VC-MH722HM/MH732HM)	AB
Q6306	VSDTC323TK/-1	J	Transistor (VC-MH722HM/MH732HM)	AB
Q6307	VSUN2111///-1	J	Transistor (VC-MH722HM/MH732HM)	AA
Q9603	VS2PB709AR/-1	J	Transistor	AB
Q9701	VS2PD601AR/-1	J	Transistor	AB
Q9702	VSXN4312///-1	U	Transistor	AB
Q9704	VS2SC2001LK-1	J	Transistor	AA
Q9801	VS2SC2001LK-1	J	Transistor	AA
Q9802	VS2SB1117KU1E	J	Transistor	AE
Q9803	VSUN2211///-1	J	Transistor	AA
Q9805	VSXN4312///-1	U	Transistor	AB
Q9901	VS2PB709AR/-1	J	Transistor	AB
Q9902	VSUN2213///-1	J	Transistor	AA
Q9903	VS2SD1856//1	J	Transistor	AE
Q9904	VSUN2211///-1	J	Transistor	AA
Q9905	VS2SD471-KL1E	J	Transistor	AC
Q9908	VS2SD468-C/-1	J	Transistor	AD
Q9909	VSUN2112///-1	J	Transistor	AA
Q9910	VSUN2211///-1	J	Transistor	AA

DIODES AND LED'S

D701	RH-PX0270GEZZ	J	Photodiode	AC
D704	RH-DX0142CEZZ	J	Diode	AA
D705	RH-PX0238GEZZ	J	RPI-352S	AF
D708	RH-PX0238GEZZ	J	RPI-352S	AF

Ref. No.	Part No.	★	Description	Code
D709	VHDMA152WA/-1	J	Diode	AA
D711	RH-PX0252GEZZ	J	GP1S563	AF
D712	RH-PX0252GEZZ	J	GP1S563	AF
△ D902	VHDERA2206/-1	J	Diode	AC
△ D903	RH-DX0142CEZZ	J	Diode	AA
△ D907	VHDBR441Q40-1	J	Diode	AC
△ D908	RH-DX0142CEZZ	J	Diode	AA
△ D909	VHDBR441Q40-1	J	Diode	AC
△ D910	RH-DX0220CEZZ	J	Diode	AB
△ D911	RH-DX0220CEZZ	J	Diode	AB
△ D912	RH-DX0220CEZZ	J	Diode	AB
△ D913	RH-DX0220CEZZ	J	Diode	AB
△ D914	RH-EX0639GEZZ	J	Zener Diode	AA
△ D915	RH-EX0654GEZZ	J	Zener Diode	AB
D1602	RH-DX0220CEZZ	J	Diode (VC-MH722HM/MH732HM)	AB
D1603	RH-DX0220CEZZ	J	Diode (VC-MH722HM/MH732HM)	AB
D1802	VHDMA152WK/-1	J	Diode	AA
D2501	RH-EX0809GEZZ	U	Zener Diode	AB
D2502	RH-EX0809GEZZ	U	Zener Diode	AB
D2801	RH-EX0646GEZZ	J	Zener Diode	AA
D2802	RH-EX0646GEZZ	J	Zener Diode (VC-MH722HM/MH732HM)	AA
D2803	RH-EX0646GEZZ	J	Zener Diode (VC-MH722HM/MH732HM)	AA
D2804	RH-EX0646GEZZ	J	Zener Diode	AA
D2902	RH-EX0646GEZZ	J	Zener Diode	AA
D2903	RH-EX0809GEZZ	U	Zener Diode	AB
D2904	RH-EX0646GEZZ	J	Zener Diode	AA
D6301	RH-DX0142CEZZ	J	Diode (VC-MH722HM/MH732HM)	AA
D6302	RH-DX0142CEZZ	J	Diode (VC-MH722HM/MH732HM)	AA
D9601	VHD10ELS4//1	J	Diode	AD
D9602	VHD10ELS4//1	J	Diode	AD
D9603	VHD15DF1FC/1E	J	Diode	AD
D9604	VHD15DF1FC/1E	J	Diode	AD
D9607	VHD1SS147//1	J	Diode	AA
D9611	RH-DX0142CEZZ	J	Diode	AA
D9612	VHDK34///-1	J	Diode	AE
D9701	RH-EX0640GEZZ	J	Zener Diode	AA
D9702	RH-DX0142CEZZ	J	Diode	AA
D9802	RH-DX0142CEZZ	J	Diode	AA
D9901	RH-EX0613GEZZ	J	Zener Diode	AA
D9902	RH-EX0677GEZZ	J	Zener Diode	AB
D9903	VHDERB3201-1E	J	Diode	AD
D9904	RH-EX0654GEZZ	J	Zener Diode	AB
D9905	VHD10ELS4//1	J	Diode	AD
D9906	VHD10ELS4//1	J	Diode	AD
D9907	RH-EX0632GEZZ	J	Zener Diode	AA
D9908	RH-DX0142CEZZ	J	Diode	AA
D9909	RH-DX0142CEZZ	J	Diode	AA
D9910	RH-EX0609GEZZ	J	Zener Diode	AA
DG801	VVK25U56102-1	U	Display	AW
△ IC901	RH-FX0001AJZZ	J	TCET1103G	AE
Q701	RH-PX0233GEZZ	J	PT493FL2	AD
Q702	RH-PX0233GEZZ	J	PT493FL2	AD

CRYSTALS

X501	RCRSB0232GEZZ	J	Crystal	AG
X701	RCRSB0205GEZZ	J	Crystal	AM
X702	RCRSB0138GEN1	J	Crystal	AD
X703	RCRSB0184GEZZ	J	Crystal	AM
X1801	RCRSB0184GEZZ	J	Crystal	AM

COILS AND TRANSFORMERS

CF1601	RFILC0023CEZZ	J	Filter	AE
CF1607	RFILC0268CEZZ	J	Filter	AD
FL801	RFILC0198GEZZ	J	Filter	AE
FL851	RFILC0198GEZZ	J	Filter (VC-MH732HM)	AE
L201	VP-XF221J0000	J	Peaking 220μH	AB
L301	VP-MK101K0000	J	Peaking 100μH	AB
L302	VP-XF180J0000	J	Peaking 18μH	AB
L303	VP-MK151J0000	J	Peaking 150μH	AB

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
L351	VP-MK101K0000	J	Peaking 100μH (VC-MH722HM/MH732HM)	AB	C313	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
L502	VP-XF560J0000	J	Peaking 56μH	AB	C315	VCKYCY1HB331K	J	330p 50V Ceramic	AA
L503	VP-XF120J0000	J	Peaking 12μH	AB	C316	VCCCCY1HH220J	J	22p 50V Ceramic	AA
L601	VP-MK101K0000	J	Peaking 100μH	AB	C317	VCCCCY1HH120J	J	12p 50V Ceramic	AA
L651	VP-DF221K0000	J	Peaking 220μH	AB	C318	VCCCCY1HH220J	J	22p 50V Ceramic	AA
L705	VP-MK101K0000	J	Peaking 100μH	AB	C319	VCCCCY1HH220J	J	22p 50V Ceramic	AA
L706	VP-CF331K0000	J	Peaking 330μH	AB	C320	VCCCCY1HH120J	J	12p 50V Ceramic	AA
L707	VP-XF100J0000	J	Peaking 10μH	AB	C351	VCKYCY1CB104K	J	0.1 16V Ceramic (VC-MH722HM/MH732HM)	AB
L851	VP-DF221K0000	J	Peaking 220μH (VC-MH732HM)	AB	C352	VCCCCY1HH820J	J	82p 50V Ceramic (VC-MH722HM/MH732HM)	AA
△ L901	RCILF0275GEZZ	J	Coil	AF	C353	VCKYCY1HF103Z	J	0.01 50V Ceramic (VC-MH722HM/MH732HM)	AA
L1401	VP-XF100J0000	J	Peaking 10μH	AB	C354	VCKYCY1HF103Z	J	0.01 50V Ceramic (VC-MH722HM/MH732HM)	AA
L1403	VP-MK101K0000	J	Peaking 100μH	AB	C355	VCKYCY1EF104Z	J	0.1 25V Ceramic (VC-MH722HM/MH732HM)	AA
L1405	VP-XF100J0000	J	Peaking 10μH	AB	C356	VCEA9M0JW476M	J	47 6.3V Electrolytic (VC-MH722HM/MH732HM)	AB
L1406	VP-XF100J0000	J	Peaking 10μH	AB	C357	VCKYCY1CB104K	J	0.1 16V Ceramic (VC-MH722HM/MH732HM)	AB
L1407	VP-XF120J0000	J	Peaking 12μH	AB	C501	VCEA9M0JW107M	J	100 6.3V Electrolytic	AB
L1602	VP-XF2R7K0000	J	Peaking 2.7μH	AB	C502	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
L1606	VP-XF120J0000	J	Peaking 12μH	AB	C503	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
L1608	VP-XF330J0000	J	Peaking 33μH	AB	C504	VCEA9M1HW225M	J	2.2 50V Electrolytic	AB
L1609	VP-XF120J0000	J	Peaking 12μH	AB	C505	VCKYCY1CB273K	J	0.027 16V Ceramic	AA
L1611	VP-XF220J0000	J	Peaking 22μH	AB	C506	VCKYCY1AB474K	J	0.47 10V Ceramic	AC
L1801	VP-ZK8R2K0000	J	Peaking 8.2μH	AB	C507	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA
L2503	VP-XF3R3K0000	J	Peaking 3.3μH (VC-MH722HM/MH732HM)	AB	C508	VCEA9M1HW475M	U	4.7 50V Electrolytic	AB
L2504	VP-XF3R3K0000	J	Peaking 3.3μH	AB	C509	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
L9601	RCILP0171CEZZ	J	Coil	AD	C512	VCKYD41CY103N	J	0.01 16V Ceramic	AA
L9602	RCILP0171CEZZ	J	Coil	AD	C513	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
L9603	RCILP0175CEZZ	J	Coil	AD	C514	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
SF1601	RFILC0185GEZZ	U	Filter	AE	C515	VCKYCY1HB331K	J	330p 50V Ceramic	AA
SF1602	RFILC0204GEZZ	U	Filter	AE	C516	VCCCCY1HH120J	J	12p 50V Ceramic	AA
T651	RTRNH0086GEZZ	J	OSC. Transformer	AD	C517	VCEA9M1HW335M	J	3.3 50V Electrolytic	AB
△ T901	RTRNZ0110GEZZ	U	Transformer	AE	C518	VCKYCY1CB393K	J	0.039 16V Ceramic	AA
T1601	RCILD0073GEZZ	J	Detection Coil	AE	C519	VCKYCY1AF105Z	J	1 10V Ceramic	AC
CONTROLS					C520	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA
R1626	RVR-M4786GEZZ	J	Variable Resistor	AB	C521	VCCCCY1HH6R0D	J	6p 50V Ceramic	AA
CAPACITORS					C523	VCKYCY1HF103Z	J	0.01 50V Ceramic (VC-MH722HM/MH732HM)	AA
C201	VCEA9M0JW107M	J	100 6.3V Electrolytic	AB	C601	VCEA9M0JW476M	J	47 6.3V Electrolytic	AB
C202	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA	C602	VCKYCY1EB123K	J	0.012 25V Ceramic	AA
C203	VCCCCY1HH121J	J	120p 50V Ceramic	AA	C603	VCEA9M0JW226M	J	22 6.3V Electrolytic	AB
C204	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA	C604	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C205	VCCCCY1HH220J	J	22p 50V Ceramic	AA	C605	VCEA9M1HW335M	J	3.3 50V Electrolytic	AB
C206	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA	C606	VCEA9M1CW106M	J	10 16V Electrolytic	AB
C207	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA	C607	VCEA9M1HW475M	U	4.7 25V Electrolytic	AB
C208	VCEA9M1CW106M	J	10 16V Electrolytic	AB	C608	VCEA9M0JW226M	J	22 6.3V Electrolytic	AB
C209	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA	C609	VCEA9M1HW474M	J	0.47 50V Electrolytic	AB
C210	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA	C610	VCKYD41CF105Z	J	1 16V Ceramic	AB
C211	VCEA9M1HW335M	J	3.3 50V Electrolytic	AB	C611	VCKYD41CF105Z	J	1 16V Ceramic (VC-MH722HM/MH732HM)	AB
C212	VCEA9M1CW106M	J	10 16V Electrolytic	AB	C612	VCKYD41CF105Z	J	1 16V Ceramic (VC-M522HM)	AB
C213	VCEA9M1HW225M	J	2.2 50V Electrolytic	AB	C622	VCKYCY1HB102K	J	1000p 50V Ceramic	AA
C214	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA	C623	VCKYCY1HB331K	J	330p 50V Ceramic	AA
C215	VCKYD41CF105Z	J	1 16V Ceramic	AB	C624	VCKYCY1HB682K	J	6800p 50V Ceramic	AA
C216	VCKYD41CF105Z	J	1 16V Ceramic	AB	C625	VCCCCY1HH101J	J	100p 50V Ceramic	AA
C217	VCEA9M0JW476M	J	47 6.3V Electrolytic	AB	C626	VCCCCY1HH101J	J	100p 50V Ceramic	AA
C218	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA	C627	VCCCCY1HH221J	J	220p 50V Ceramic	AA
C219	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA	C628	VCKYD41HB822K	U	8200p 50V Ceramic (VC-M522HM)	AC
C220	VCKYCY1EF104Z	J	0.1 25V Ceramic	AA	C628	VCKYD41HB102K	J	1000p 50V Ceramic (VC-MH722HM/MH732HM)	AA
C221	VCEA9M1CW106M	J	10 16V Electrolytic	AB	C629	VCKYD41CF105Z	J	1 16V Ceramic	AB
C222	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA	C651	VCQPKA2AA562J	J	5600p 100V Mylar	AB
C223	VCEA9M0JW107M	J	100 6.3V Electrolytic	AB	C652	VCKYD41HB103K	U	0.01 50V Ceramic	AC
C225	VCCCCY1HH220J	J	22p 50V Ceramic	AA	C653	VCKYD41HB103K	U	0.01 50V Ceramic	AC
C301	VCEA9M0JW476M	J	47 6.3V Electrolytic	AB	C654	VCEA9M1CW106M	J	10 16V Electrolytic	AB
C302	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA	C655	VCEA9M1CW476M	J	47 16V Electrolytic	AB
C303	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA	C701	VCEA9M1CW107M	J	100 16V Electrolytic	AB
C304	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA	C702	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C305	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA	C703	VCKYCY1CB104K	J	0.1 16V Ceramic	AB
C306	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA					
C307	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA					
C308	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA					
C309	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA					
C310	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA					
C311	VCKYD41CY103N	J	0.01 16V Ceramic	AA					
C312	VCKYCY1HF103Z	J	0.01 50V Ceramic	AA					

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
C704	VCKYCY1CB104K	J 0.1	16V Ceramic	AB	C855	VCKYD41CY103N	J 0.01	16V Ceramic (VC-MH732HM)	AA
C705	VCEA2A1VW337M	J 330	35V Electrolytic	AD	△ C901	RC-FZ029CUMZZ	J 0.1	250V M.Polypro	AD
C706	VCKYD41HF104Z	J 0.1	50V Ceramic	AA	△ C902	RC-FZ029CUMZZ	J 0.1	250V M.Polypro	AD
C707	VCKYD41CF105Z	J 1	16V Ceramic	AB	△ C903	RC-KZ0105GEZZ	J 2200p	400V Ceramic	AD
C708	VCQYTA1HM223J	J 0.022	50V Mylar	AA	△ C904	RC-EZ0440GEZZ	J 47	400V Electrolytic	AH
C709	VCQYTA1HM223J	J 0.022	50V Mylar	AA	△ C905	RC-KZ0112CEZZ	J 100p	1kV Ceramic	AB
C711	VCKYCY1CB104K	J 0.1	16V Ceramic	AB	△ C906	VCIFYZP2GA473K	J 0.047	400V M.Polypro	AC
C712	VCKYCY1CB104K	J 0.1	16V Ceramic	AB	△ C911	VCKYD41CX222N	J 2200p	16V Ceramic	AA
C714	VCKYD41CY103N	J 0.01	16V Ceramic	AA	△ C912	VCQYTA1HM222J	J 2200p	50V Mylar	AA
C715	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA	△ C913	VCEA9A1HW226M	J 22	50V Electrolytic	AB
C716	VCKYCY1EB104K	J 1000p	50V Ceramic	AA	△ C914	VCEA9A1HW106M	U 10	50V Electrolytic	AE
C718	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA	△ C915	VCQYTA1HM333J	J 0.033	50V Mylar	AA
C719	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C1401	VCEA9M1HW105M	J 1	50V Electrolytic	AB
C721	VCKYD41HF104Z	J 0.1	50V Ceramic	AA	C1404	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C722	VCKYCY1EB103K	J 0.01	25V Ceramic	AA	C1405	VCEA9M0JW227M	J 220	6.3V Electrolytic	AB
C725	VCCCCY1HH680J	J 68p	50V Ceramic	AA	C1408	VCEA9M0JW476M	J 47	6.3V Electrolytic	AB
C726	VCCCCY1HH221J	J 220p	50V Ceramic	AA	C1410	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C728	VCEA9M0JW226M	J 22	6.3V Electrolytic	AB	C1413	VCEA9M0JW227M	J 220	6.3V Electrolytic	AB
C729	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C1501	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C730	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C1502	VCEA9M1CW106M	J 10	16V Electrolytic	AB
C731	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA	C1601	VCKYCY1EB103K	J 0.01	25V Ceramic	AA
C732	VCKYCY1HB222K	J 2200p	50V Ceramic	AA	C1602	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C735	VCCCCY1HH221J	J 220p	50V Ceramic	AA	C1608	VCKYCY1EB103K	J 0.01	25V Ceramic	AA
C736	VCKYCY1HB102K	J 1000p	50V Ceramic	AA	C1610	VCKYCY1EB103K	J 0.01	25V Ceramic	AA
C737	VCKYD41CY103N	J 0.01	16V Ceramic	AA	C1613	VCCCCY1HH6R0D	U 7p	50V Ceramic	AA
C740	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA	C1614	VCKYCY1EB103K	J 0.01	25V Ceramic	AA
C741	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA	C1615	VCKYCY1EB103K	J 0.01	25V Ceramic	AA
C742	VCEA9M1HW105M	J 1	50V Electrolytic	AB	C1616	VCKYCY1HB102K	J 1000p	50V Ceramic	AA
C743	VCKYCY1AF105Z	J 1	10V Ceramic	AC	C1617	VCEA9A1CW106M	J 10	16V Electrolytic	AB
C744	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C1618	VCEA9A1HW474M	J 0.47	50V Electrolytic	AB
C745	VCEA9M0JW227M	J 220	6.3V Electrolytic	AB	C1619	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C746	VCE9EM1HW105M	J 1	50V Elect.(N.P)	AB	C1622	VCKYCY1EB273K	J 0.027	25V Ceramic (VC-M522HM)	AB
C747	VCCCCY1HH101J	J 100p	50V Ceramic	AA	C1622	VCKYCY1CB333K	J 0.033	16V Ceramic (VC-MH722HM/MH732HM)	AA
C748	VCKYD41CY103N	J 0.01	16V Ceramic	AA	C1623	VCCCCY1HH390J	J 39p	50V Ceramic	AA
C749	VCKYCY1EB103K	J 0.01	25V Ceramic	AA	C1625	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C752	VCCCCY1HH180J	J 18p	50V Ceramic	AA	C1626	VCEA9M1CW336M	U 33	16V Electrolytic	AE
C753	VCCCCY1HH150J	J 15p	50V Ceramic	AA	C1627	VCEA9M1HW474M	J 0.47	50V Electrolytic	AB
C754	VCCCCY1HH180J	J 18p	50V Ceramic	AA	C1631	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C755	VCCCCY1HH220J	J 22p	50V Ceramic	AA	C1632	VCKYCY1EB103K	J 0.01	25V Ceramic	AA
C756	VCCCCY1HH180J	J 18p	50V Ceramic	AA	C1633	VCCCCY1HH5R0C	J 5p	50V Ceramic	AA
C757	VCCCCY1HH150J	J 15p	50V Ceramic	AA	C1634	VCEA9M1CW476M	J 47	16V Electrolytic	AB
C758	VCKYD41CY103N	J 0.01	16V Ceramic	AA	C1635	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C760	VCKYCY1EF104Z	J 0.01	25V Ceramic	AA	C1636	VCCCCY1HH220J	J 22p	50V Ceramic	AA
C761	VCEAGA0JW108M	J 1000	6.3V Electrolytic	AC	C1638	VCCCCY1HH220J	J 22p	50V Ceramic	AA
C762	VCEA9M0JW226M	J 22	6.3V Electrolytic	AB	C1642	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C763	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA	C1650	VCKYD41CY103N	J 0.01	16V Ceramic	AA
C765	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA	C1680	VCKYCY1AF105Z	J 1	10V Ceramic	AC
C768	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA	C1681	VCEA9M1CW336M	U 33	16V Electrolytic	AE
C769	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C1682	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA
C770	VCKYD41HF473Z	J 0.047	50V Ceramic	AA	C1683	VCCCCY1HH470J	J 47p	50V Ceramic	AA
C771	VCKYCY1HB102K	J 1000p	50V Ceramic	AA	C1803	VCIFYSA1HB563J	J 0.056	50V M.Polypro	AA
C773	VCEA9M0JW227M	J 220	6.3V Electrolytic	AB	C1804	VCEA9M1HW475M	U 4.7	50V Electrolytic	AB
C774	VCEA9M0JW107M	J 100	6.3V Electrolytic	AB	C1805	VCKYD41CF105Z	J 1	16V Ceramic	AB
C775	VCKYCY1HB102K	J 1000p	50V Ceramic	AA	C1806	VCEA9M1HW105M	J 1	50V Electrolytic	AB
C776	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA	C1807	VCCSD41HL120J	J 12p	50V Ceramic	AA
C780	VCKYCY1EF473Z	J 0.047	25V Ceramic	AB	C1808	VCCSD41HL120J	J 12p	50V Ceramic	AA
C781	VCKYD41CY103N	J 0.01	16V Ceramic	AA	C1809	VCKYD41CX472N	J 4700p	16V Ceramic	AA
C792	VCKYD41HF104Z	J 0.1	50V Ceramic	AA	C1810	VCKYD41HF104Z	J 0.1	50V Ceramic	AA
C793	VCIFYSA1HB104J	J 0.1	50V M.Polypro	AB	C1811	VCEA9M0JW476M	J 47	6.3V Electrolytic	AB
C794	VCCCCY1HH6R0D	J 6p	50V Ceramic	AA	C1812	VCKYD41CY103N	J 0.01	16V Ceramic	AA
C795	VCCCCY1HH120J	J 12p	50V Ceramic	AA	C2151	VCKYD41CF105Z	J 1	16V Ceramic	AB
C796	VCCCCY1HH270J	J 27p	50V Ceramic	AA	C2152	VCKYD41CF105Z	J 1	16V Ceramic (VC-MH722HM/MH732HM)	AB
C797	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA	C2501	VCKYD41CF105Z	J 1	16V Ceramic	AB
C798	VCCCCY1HH6R0D	J 6p	50V Ceramic	AA	C2502	VCKYD41CF105Z	J 1	16V Ceramic (VC-MH722HM/MH732HM)	AB
C807	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA	C2503	VCKYD41CF105Z	J 1	16V Ceramic	AB
C815	VCEA9A1CW226M	J 22	16V Electrolytic	AB					
C816	VCKYD41CY103N	J 0.01	16V Ceramic	AA					
C851	VCEAGA1CW227M	J 220	16V Electrolytic (VC-MH732HM)	AC					
C852	VCKYD41CY103N	J 0.01	16V Ceramic (VC-MH732HM)	AA					
C853	VCKYD41CY103N	J 0.01	16V Ceramic (VC-MH732HM)	AA					
C854	VCEA9M0JW476M	J 47	6.3V Electrolytic (VC-MH732HM)	AB					

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
C2504	VCKYD41CF105Z	J 1	16V Ceramic (VC-MH722HM/MH732HM)	AB	C6324	VCEA9M0JW226M	J 22	6.3V Electrolytic (VC-MH722HM/MH732HM)	AB
C2505	VCKYD41CF105Z	J 1	16V Ceramic	AB	C6325	VCEA9M1HW105M	J 1	50V Electrolytic (VC-MH722HM/MH732HM)	AB
C2506	VCKYCY1AF105Z	J 1	10V Ceramic (VC-MH722HM/MH732HM)	AC	C6326	VCCCCY1HH680J	J 68p	50V Ceramic (VC-MH722HM/MH732HM)	AA
C2507	VCKYD41CF105Z	J 1	16V Ceramic	AB	C6327	VCCCCY1HH680J	J 68p	50V Ceramic (VC-MH722HM/MH732HM)	AA
C2508	VCKYD41CF105Z	J 1	16V Ceramic	AB	C6329	VCEA9M0JW476M	J 47	6.3V Electrolytic (VC-MH722HM/MH732HM)	AB
C2509	VCKYCY1AF105Z	J 1	10V Ceramic	AC	C6330	VCEA9A0JW476M	J 47	6.3V Electrolytic (VC-MH722HM/MH732HM)	AB
C2513	VCKYCY1AF105Z	J 1	10V Ceramic (VC-MH722HM/MH732HM)	AC	C9601	VCEAGA1AW477M	J 470	10V Electrolytic	AC
C2517	VCEA9M1HW105M	J 1	50V Electrolytic	AB	C9602	VCQYTA1HM103J	J 0.01	50V Mylar	AA
C2518	VCEA9M1HW105M	J 1	50V Electrolytic	AB	C9603	VCEAGA1JW476M	J 47	63V Electrolytic	AB
C2519	VCKYD41HF104Z	J 0.1	50V Ceramic	AA	C9605	VCEAGA1VW477M	J 470	35V Electrolytic	AD
C2520	VCEA9M1CW107M	J 100	16V Electrolytic	AB	C9606	VCEAGA1VW476M	J 47	35V Electrolytic	AB
C2521	VCKYCY1HF103Z	J 0.01	50V Ceramic	AA	C9608	RC-EZ0439GEZZ	J	Capacitor	AF
C2522	VCEA9M0JW227M	J 220	6.3V Electrolytic	AB	C9609	VCEAGA1EW107M	J 100	25V Electrolytic	AD
C2523	VCEAGA1CW227M	J 220	16V Electrolytic	AC	C9610	RC-EZ0438GEZZ	J	Capacitor	AF
C2801	VCEA9A1CW106M	J 10	16V Electrolytic	AB	C9611	VCEAGA1AW477M	J 470	10V Electrolytic	AC
C2802	VCEA9M1CW106M	J 10	16V Electrolytic (VC-MH722HM/MH732HM)	AB	C9612	VCEAGA1HW476M	J 47	50V Electrolytic	AB
C2803	VCEA9A1CW106M	J 10	16V Electrolytic	AB	C9613	VCEA9M1HW105M	J 1	50V Electrolytic	AB
C2804	VCEA9A1CW106M	J 10	16V Electrolytic (VC-MH722HM/MH732HM)	AB	C9614	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C2805	VCEA9A1CW106M	J 10	16V Electrolytic	AB	C9615	VCKYCY1EF104Z	J 0.1	25V Ceramic	AA
C2806	VCEA9A1CW106M	J 10	16V Electrolytic (VC-MH722HM/MH732HM)	AB	C9616	VCKYD41HB102K	J 1000p	50V Ceramic	AA
C6301	VCEA9M1CW106M	J 10	16V Electrolytic (VC-MH722HM/MH732HM)	AB	C9701	VCEA9M1HW105M	J 1	50V Electrolytic	AB
C6302	VCEA9M1HW475M	U 4.7	50V Electrolytic (VC-MH722HM/MH732HM)	AB	C9702	VCEA9M1HW105M	J 1	50V Electrolytic	AB
C6303	VCEA9M1HW475M	U 4.7	50V Electrolytic (VC-MH722HM/MH732HM)	AB	C9901	VCEA9M1HW105M	J 1	50V Electrolytic	AB
C6304	VCKYCY1CB473K	J 0.047	16V Ceramic (VC-MH722HM/MH732HM)	AA	C9902	VCEA9M1CW476M	J 47	16V Electrolytic	AB
C6305	VCEA9M1CW336M	U 33	16V Electrolytic (VC-MH722HM/MH732HM)	AE	C9903	VCEA9M1HW106M	U 10	50V Electrolytic	AE
C6306	VCEA9A1CW106M	J 10	16V Electrolytic (VC-MH722HM/MH732HM)	AB	C9904	VCEA9M1CW106M	J 10	16V Electrolytic	AB
C6307	VCEA9M1CW106M	J 10	16V Electrolytic (VC-MH722HM/MH732HM)	AB	△ FB901	VCKYD41HB331K	J 330p	50V Ceramic	AA
C6308	VCKYCY1EB153K	J 0.015	25V Ceramic (VC-MH722HM/MH732HM)	AA	RESISTORS				
C6309	VCKYCY1HF103Z	J 0.01	50V Ceramic (VC-MH722HM/MH732HM)	AA	JA333	VRD-RA2BE101J	J 100	1/8W Carbon	AA
C6310	VCKYCY1CF224Z	J 0.22	16V Ceramic (VC-MH722HM/MH732HM)	AA	R201	VRS-CY1JF682J	J 6.8k	1/16W Metal Oxide	AA
C6311	VCKYCY1EB153K	J 0.015	25V Ceramic (VC-MH722HM/MH732HM)	AA	R202	VRS-CY1JF182J	J 1.8k	1/16W Metal Oxide	AA
C6312	VCEA9M1CW106M	J 10	16V Electrolytic (VC-MH722HM/MH732HM)	AB	R203	VRS-CY1JF332J	J 3.3k	1/16W Metal Oxide	AA
C6313	VCEA9M1CW106M	J 10	16V Electrolytic (VC-MH722HM/MH732HM)	AB	R207	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
C6314	VCKYCY1CB473K	J 0.047	16V Ceramic (VC-MH722HM/MH732HM)	AA	R208	VRS-CY1JF471J	J 470	1/16W Metal Oxide	AA
C6315	VCEA9M1CW336M	U 33	16V Electrolytic (VC-MH722HM/MH732HM)	AE	R209	VRS-CY1JF472J	J 4.7k	1/16W Metal Oxide	AA
C6316	VCKYCY1EF104Z	J 0.1	25V Ceramic (VC-MH722HM/MH732HM)	AA	R210	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
C6317	VCEA9M0JW476M	J 47	6.3V Electrolytic (VC-MH722HM/MH732HM)	AB	R247	VRS-CY1JF223J	J 22k	1/16W Metal Oxide	AA
C6318	VCEA9A1CW106M	J 10	16V Electrolytic (VC-MH722HM/MH732HM)	AB	R248	VRS-CY1JF223J	J 22k	1/16W Metal Oxide	AA
C6319	VCKYD41CY103N	J 0.01	16V Ceramic (VC-MH722HM/MH732HM)	AA	R301	VRS-CY1JF473J	J 47k	1/16W Metal Oxide	AA
C6320	VCEA9A1CW106M	J 10	16V Electrolytic (VC-MH722HM/MH732HM)	AB	R303	VRS-CY1JF392J	J 3.9k	1/16W Metal Oxide	AA
C6321	VCEA9M1CW106M	J 10	16V Electrolytic (VC-MH722HM/MH732HM)	AB	R305	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
C6322	VCEA9A1CW107M	J 100	16V Electrolytic (VC-MH722HM/MH732HM)	AB	R306	VRS-CY1JF681J	J 680	1/16W Metal Oxide	AA
C6323	VCEA9M1CW106M	J 10	16V Electrolytic (VC-MH722HM/MH732HM)	AB	R501	VRS-CY1JF102J	J 1k	1/16W Metal Oxide	AA
					R502	VRS-CY1JF273J	J 27k	1/16W Metal Oxide	AA
					R504	VRS-CY1JF221J	J 220	1/16W Metal Oxide	AA
					R505	VRS-CY1JF224J	J 220k	1/16W Metal Oxide	AA
					R506	VRS-CY1JF153J	J 15k	1/16W Metal Oxide (VC-MH722HM/MH732HM)	AA
					R507	VRS-CY1JF272J	J 2.7k	1/16W Metal Oxide (VC-MH722HM/MH732HM)	AA
					R509	VRS-CY1JF154J	J 150k	1/16W Metal Oxide (VC-MH722HM/MH732HM)	AA
					R510	VRS-CY1JF154J	J 150k	1/16W Metal Oxide (VC-MH722HM/MH732HM)	AA
					R601	VRS-CY1JF822J	J 8.2k	1/16W Metal Oxide	AA
					R602	VRS-CY1JF274J	J 270k	1/16W Metal Oxide	AA
					R603	VRS-CY1JF181J	J 180	1/16W Metal Oxide	AA
					R604	VRS-CY1JF473J	J 47k	1/16W Metal Oxide	AA
					R605	VRS-CY1JF153J	J 15k	1/16W Metal Oxide	AA
					R606	VRS-CY1JF333J	J 33k	1/16W Metal Oxide	AA
					R607	VRS-CY1JF682J	J 6.8k	1/16W Metal Oxide (VC-M522HM)	AA
					R608	VRS-CY1JF122J	J 1.2k	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R609	VRS-CY1JF224J	J	220k 1/16W Metal Oxide	AA
R610	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R611	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA
R612	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R613	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R614	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R615	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R616	VRS-CY1JF681J	J	680 1/16W Metal Oxide	AA
			(VC-M522HM)	
R616	VRS-CY1JF393J	J	39k 1/16W Metal Oxide	AA
			(VC-MH722HM/MH732HM)	
R617	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R653	VRS-CY1JF563J	J	56k 1/16W Metal Oxide	AA
R654	VRS-CY1JF224J	J	220k 1/16W Metal Oxide	AA
R655	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R656	VRS-CY1JF470J	J	47 1/16W Metal Oxide	AA
R657	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R658	VRD-RA2EE100J	J	10 1/4W Carbon	AA
R701	VRD-RA2BE103J	J	10k 1/8W Carbon	AA
R702	VRD-RA2BE103J	J	10k 1/8W Carbon	AA
R703	VRD-RA2EE1R0J	J	1 1/4W Carbon	AA
R704	VRS-CY1JF392J	J	3.9k 1/16W Metal Oxide	AA
R705	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R706	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R707	VRS-CY1JF123J	J	12k 1/16W Metal Oxide	AA
R708	VRD-RA2BE123J	J	12k 1/8W Carbon	AA
R710	VRD-RA2EE151J	J	150 1/4W Carbon	AA
R711	VRG-SC2EB1R0J	J	1 1/4W Fuse Resistor	AB
R712	VRD-RA2BE103J	J	10k 1/8W Carbon	AA
R714	VRS-CY1JF822J	J	8.2k 1/16W Metal Oxide	AA
			(VC-M522HM)	
R715	VRS-CY1JF221J	J	220 1/16W Metal Oxide	AA
R716	VRS-CY1JF221J	J	220 1/16W Metal Oxide	AA
R717	VRS-CY1JF221J	J	220 1/16W Metal Oxide	AA
R718	VRD-RA2EE1R0J	J	1 1/4W Carbon	AA
R719	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R721	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R722	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R723	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R724	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R725	VRD-RA2BE102J	J	1k 1/8W Carbon	AA
R726	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R727	VRD-RA2BE332J	J	3.3k 1/8W Carbon	AA
R728	VRS-CY1JF331J	J	330 1/16W Metal Oxide	AA
R730	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R731	VRS-CY1JF182J	J	1.8k 1/16W Metal Oxide	AA
R732	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R733	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA
R734	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA
R737	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R738	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R741	VRS-CY1JF564J	J	560k 1/16W Metal Oxide	AA
R742	VRS-CY1JF154J	J	150k 1/16W Metal Oxide	AA
R743	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R745	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R746	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R747	VRD-RA2BE275J	J	2.7M 1/8W Carbon	AA
R748	VRD-RA2BE271J	J	270 1/8W Carbon	AA
R749	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R750	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R751	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R752	VRD-RA2BE103J	J	10k 1/8W Carbon	AA
R753	VRS-CY1JF154J	J	150k 1/16W Metal Oxide	AA
R754	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R755	VRD-RA2BE151J	J	150 1/8W Carbon	AA
R756	VRS-CY1JF822J	J	8.2k 1/16W Metal Oxide	AA
R759	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R760	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R761	VRD-RA2BE271J	J	270 1/8W Carbon	AA
R763	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA
R764	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R765	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R766	VRS-CY1JF183J	J	18k 1/16W Metal Oxide	AA
R767	VRS-CY1JF151J	J	150 1/16W Metal Oxide	AA
R768	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R769	VRS-CY1JF393J	J	39k 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R770	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R771	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R772	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R773	VRS-CY1JF391J	J	390 1/16W Metal Oxide	AA
R774	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R775	VRS-CY1JF391J	J	390 1/16W Metal Oxide	AA
R776	VRS-CY1JF151J	J	150 1/16W Metal Oxide	AA
R777	VRS-CY1JF331J	J	330 1/16W Metal Oxide	AA
R778	VRS-CY1JF221J	J	220 1/16W Metal Oxide	AA
R779	VRS-CY1JF221J	J	220 1/16W Metal Oxide	AA
R780	VRS-CY1JF122J	J	1.2k 1/16W Metal Oxide	AA
R782	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R784	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R787	VRD-RA2BE473J	J	47k 1/8W Carbon	AA
R788	VRS-CY1JF154J	J	150k 1/16W Metal Oxide	AA
R789	VRS-CY1JF225J	J	2.2M 1/16W Metal Oxide	AA
R790	VRD-RA2BE102J	J	1k 1/8W Carbon	AA
R791	VRD-RA2BE102J	J	1k 1/8W Carbon	AA
R798	VRS-CY1JF561J	J	560 1/16W Metal Oxide	AA
R799	VRS-CY1JF561J	J	560 1/16W Metal Oxide	AA
R801	VRD-RA2BE562J	J	5.6k 1/8W Carbon	AA
R802	VRD-RA2BE562J	J	5.6k 1/8W Carbon	AA
R803	VRD-RA2BE102J	J	1k 1/8W Carbon	AA
R804	VRD-RA2BE102J	J	1k 1/8W Carbon	AA
R805	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R806	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R809	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R811	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R813	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R814	VRS-CY1JF122J	J	1.2k 1/16W Metal Oxide	AA
R816	VRS-CY1JF822J	J	8.2k 1/16W Metal Oxide	AA
R817	VRS-CY1JF822J	J	8.2k 1/16W Metal Oxide	AA
R819	VRD-RA2EE100J	J	10 1/4W Carbon	AA
R820	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R821	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R822	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R823	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R824	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R825	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R826	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R827	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R828	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R851	VRG-SC2EB120J	U	12 1/4W Fuse Resistor	AB
			(VC-MH732HM)	
R852	VRD-RA2BE331J	J	330 1/8W Carbon	AA
			(VC-MH732HM)	
△ R901	VRD-RA2HD105J	J	1M 1/2W Carbon	AA
△ R902	RR-HZ0014GEZZ	U	Resistor	AB
△ R904	RR-WZ0003GEZZ	J	Resistor	AD
△ R905	RR-SZ0015GEZZ	U	Resistor	AA
△ R906	VRD-RA2HD154J	J	150k 1/2W Carbon	AA
△ R907	VRD-RA2HD154J	J	150k 1/2W Carbon	AA
△ R910	VRD-RA2EE4R7J	J	4.7 1/4W Carbon	AA
△ R914	VRD-RA2EE563J	J	56k 1/4W Carbon	AA
△ R915	VRD-RA2BE470J	J	47 1/8W Carbon	AA
△ R916	VRN-VV3DBR22J	J	0.22 2W Metal Film	AB
△ R917	VRD-RA2EE471J	J	470 1/4W Carbon	AA
△ R918	VRD-RA2BE121J	J	120 1/8W Carbon	AA
△ R919	VRD-RA2BE183J	J	18k 1/8W Carbon	AA
△ R920	VRD-RA2BE471J	J	470 1/8W Carbon	AA
△ R921	VRD-RA2BE153J	J	15k 1/8W Carbon	AA
R1404	VRD-RA2BE392J	J	3.9k 1/8W Carbon	AA
			(VC-M522HM)	
R1405	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
R1501	VRD-RA2BE394J	J	390k 1/8W Carbon	AA
R1502	VRS-CY1JF474J	J	470k 1/16W Metal Oxide	AA
R1601	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA
R1603	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA
R1604	VRS-CY1JF122J	J	1.2k 1/16W Metal Oxide	AA
R1607	VRD-RA2BE221J	J	220 1/8W Carbon	AA
R1608	VRS-CY1JF152J	J	1.5k 1/16W Metal Oxide	AA
R1609	VRS-CY1JF330J	J	33 1/16W Metal Oxide	AA
R1618	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA
R1619	VRD-RA2BE223J	J	22k 1/8W Carbon	AA
R1620	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R1621	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
R1625	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA	R6307	VRS-CY1JF393J	J	39k 1/16W Metal Oxide	AA
R1628	VRS-CY1JF105J	J	1M 1/16W Metal Oxide	AA				(VC-MH722HM/MH732HM)	
R1629	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA	R6308	VRS-CY1JF392J	J	3.9k 1/16W Metal Oxide	AA
R1630	VRS-CY1JF222J	J	2.2k 1/16W Metal Oxide	AA				(VC-MH722HM/MH732HM)	
R1631	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA	R6311	VRS-CY1JF393J	J	39k 1/16W Metal Oxide	AA
			(VC-M522HM)					(VC-MH722HM/MH732HM)	
R1631	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA	R6312	VRS-CY1JF392J	J	3.9k 1/16W Metal Oxide	AA
			(VC-MH722HM/MH732HM)					(VC-MH722HM/MH732HM)	
R1632	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA	R6313	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
			(VC-M522HM)					(VC-MH722HM/MH732HM)	
R1632	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA	R6314	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
			(VC-MH722HM/MH732HM)					(VC-MH722HM/MH732HM)	
R1637	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA	R6315	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA
R1638	VRS-CY1JF680J	J	68 1/16W Metal Oxide	AA				(VC-MH722HM/MH732HM)	
R1639	VRS-CY1JF681J	J	680 1/16W Metal Oxide	AA	R6316	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA
R1644	VRS-CY1JF221J	J	220 1/16W Metal Oxide	AA				(VC-MH722HM/MH732HM)	
R1645	VRS-CY1JF331J	J	330 1/16W Metal Oxide	AA	R6317	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
R1656	VRS-CY1JF471J	J	470 1/16W Metal Oxide	AA				(VC-MH722HM/MH732HM)	
R1660	VRS-CY1JF151J	J	150 1/16W Metal Oxide	AA	R6318	VRS-CY1JF303J	J	30k 1/16W Metal Oxide	AA
R1661	VRS-CY1JF151J	J	150 1/16W Metal Oxide	AA				(VC-MH722HM/MH732HM)	
R1664	VRS-CY1JF681J	J	680 1/16W Metal Oxide	AA	R6320	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R1666	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA				(VC-MH722HM/MH732HM)	
			(VC-MH722HM/MH732HM)		R6321	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
R1670	VRD-RA2BE102J	J	1k 1/8W Carbon	AA				(VC-MH722HM/MH732HM)	
			(VC-M522HM)		R6322	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R1672	VRD-RA2BE331J	J	330 1/8W Carbon	AA				(VC-MH722HM/MH732HM)	
			(VC-M522HM)		R6323	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
			(VC-MH722HM/MH732HM)					(VC-MH722HM/MH732HM)	
R1680	VRS-CY1JF224J	J	220k 1/16W Metal Oxide	AA	R6324	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R1801	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA				(VC-MH722HM/MH732HM)	
R1807	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA	R6327	VRD-RA2BE331J	J	330 1/8W Carbon	AA
R1808	VRS-CY1JF562J	J	5.6k 1/16W Metal Oxide	AA				(VC-MH722HM/MH732HM)	
R1810	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA	R6328	VRD-RA2BE331J	J	330 1/8W Carbon	AA
R1816	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA				(VC-MH722HM/MH732HM)	
R1817	VRS-CY1JF125J	J	1.2M 1/16W Metal Oxide	AA	R6330	VRD-RA2BE103J	J	10k 1/8W Carbon	AA
R1818	VRS-CY1JF334J	J	330k 1/16W Metal Oxide	AA				(VC-MH722HM/MH732HM)	
R1819	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA	R6331	VRD-RA2BE103J	J	10k 1/8W Carbon	AA
R1820	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA				(VC-MH722HM/MH732HM)	
R1821	VRS-CY1JF684J	J	680k 1/16W Metal Oxide	AA				(VC-MH722HM/MH732HM)	
R1822	VRS-CY1JF125J	J	1.2M 1/16W Metal Oxide	AA	△ R9601	VRG-SC2EB1R0J	J	1 1/4W Fuse Resistor	AB
R1823	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA	R9602	VRS-CY1JF104J	J	100k 1/16W Metal Oxide	AA
R2501	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA	R9603	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA
R2502	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA	R9604	VRS-CY1JF100J	J	10 1/16W Metal Oxide	AA
R2503	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA	R9605	VRS-CY1JF331J	J	330 1/16W Metal Oxide	AA
R2504	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA	R9606	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R2512	VRS-CY1JF750J	J	75 1/16W Metal Oxide	AA	R9607	VRD-RA2BE331J	J	330 1/8W Carbon	AA
R2515	VRS-CY1JF750J	J	75 1/16W Metal Oxide	AA	R9609	VRD-RA2BE471J	J	470 1/8W Carbon	AA
R2531	VRS-CY1JF273J	J	27k 1/16W Metal Oxide	AA	R9610	VRD-RA2BE122J	J	1.2k 1/8W Carbon	AA
			(VC-M522HM)		R9611	VRD-RA2BE152J	J	1.5k 1/8W Carbon	AA
R2532	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA	R9612	VRS-CY1JF392J	J	3.9k 1/16W Metal Oxide	AA
R2533	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA	R9613	VRS-CY1JF682J	J	6.8k 1/16W Metal Oxide	AA
			(VC-MH722HM/MH732HM)		R9614	VRS-CY1JF102J	J	1k 1/16W Metal Oxide	AA
R2804	VRD-RA2BE750J	J	75 1/8W Carbon	AA	R9616	VRD-RA2HD100J	J	10 1/2W Carbon	AA
R2805	VRD-RA2BE821J	J	820 1/8W Carbon	AA	R9701	VRD-RA2BE151J	J	150 1/8W Carbon	AA
			(VC-MH722HM/MH732HM)		R9702	VRS-CY1JF183J	J	18k 1/16W Metal Oxide	AA
R2806	VRD-RA2BE821J	J	820 1/8W Carbon	AA	R9703	VRS-CY1JF272J	J	2.7k 1/16W Metal Oxide	AA
R2807	VRD-RA2BE821J	J	820 1/8W Carbon	AA	R9705	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
			(VC-MH722HM/MH732HM)		R9801	VRD-RA2BE472J	J	4.7k 1/8W Carbon	AA
R2808	VRD-RA2BE821J	J	820 1/8W Carbon	AA	R9802	VRS-CY1JF332J	J	3.3k 1/16W Metal Oxide	AA
R2821	VRS-CY1JF561J	J	560 1/16W Metal Oxide	AA	R9803	VRD-RA2BE472J	J	4.7k 1/8W Carbon	AA
R2822	VRD-RA2BE561J	J	560 1/8W Carbon	AA	R9804	VRD-RA2HD122J	J	1.2k 1/2W Carbon	AA
R2824	VRD-RA2BE750J	J	75 1/8W Carbon	AA	R9810	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA
R2902	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA	R9901	VRD-RA2HD471J	J	470 1/2W Carbon	AA
R2903	VRD-RA2BE821J	J	820 1/8W Carbon	AA	R9902	VRS-CY1JF333J	J	33k 1/16W Metal Oxide	AA
R2904	VRD-RA2EE331J	J	330 1/4W Carbon	AA	R9903	VRD-RA2BE472J	J	4.7k 1/8W Carbon	AA
R2905	VRS-CY1JF183J	J	18k 1/16W Metal Oxide	AA	R9904	VRD-RA2EE472J	J	4.7k 1/4W Carbon	AA
R2906	VRS-CY1JF153J	J	15k 1/16W Metal Oxide	AA	R9905	VRD-RA2BE333J	J	33k 1/8W Carbon	AA
R6301	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA	R9908	VRD-RA2EE331J	J	330 1/4W Carbon	AA
R6302	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA	R9909	VRS-CY1JF103J	J	10k 1/16W Metal Oxide	AA
			(VC-M522HM)		R9910	VRD-RA2EE121J	J	120 1/4W Carbon	AA
R6302	VRS-CY1JF392J	J	3.9k 1/16W Metal Oxide	AA	R9911	VRS-CY1JF223J	J	22k 1/16W Metal Oxide	AA
			(VC-MH722HM/MH732HM)						
R6303	VRS-CY1JF473J	J	47k 1/16W Metal Oxide	AA					
			(VC-MH722HM/MH732HM)						
R6304	VRS-CY1JF392J	J	3.9k 1/16W Metal Oxide	AA					
			(VC-MH722HM/MH732HM)						
					MISCELLANEOUS PARTS				
					△ F901	QACCB5014UMZZ	J	AC Cord	
					△ FB202	QFS-C2029CEZZ	U	Fuse, T2AL/250V	AB
					FB203	RBLN-0043CEZZ	J	Ferrite Bead	AB
						RBLN-0051TAZZ	J	Ferrite Bead	AC

Ref. No.	Part No.	★	Description	Code
FB701	RBLN-0037CEZZ	J	Ferrite Bead	AB
⚠ FB902	RBLN-0043CEZZ	J	Ferrite Bead	AB
⚠ FB903	RBLN-0043CEZZ	J	Ferrite Bead	AB
FB1401	RBLN-0043CEZZ	J	Ferrite Bead	AB
FB2501	RBLN-0077TAZZ	J	Ferrite Bead	AB
FB2502	RBLN-0077TAZZ	J	Ferrite Bead (VC-MH722HM/MH732HM)	AB
FB2503	RBLN-0076TAZZ	J	Ferrite Bead	AC
FB2504	RBLN-0076TAZZ	J	Ferrite Bead	AC
FB2801	RBLN-0077TAZZ	J	Ferrite Bead	AB
FB2802	RBLN-0077TAZZ	J	Ferrite Bead	AB
FB2803	RBLN-0077TAZZ	J	Ferrite Bead (VC-MH722HM/MH732HM)	AB
FB2804	RBLN-0077TAZZ	J	Ferrite Bead	AB
FB2805	RBLN-0077TAZZ	J	Ferrite Bead (VC-MH722HM/MH732HM)	AB
FB2806	RBLN-0077TAZZ	J	Ferrite Bead	AB
FB2807	RBLN-0077TAZZ	J	Ferrite Bead (VC-MH722HM/MH732HM)	AB
FB2808	RBLN-0077TAZZ	J	Ferrite Bead (VC-MH722HM/MH732HM)	AB
⚠ FH901	QFSDH1013CEZZ	J	Fuse Holder	AC
⚠ FH902	QFSDH1014CEZZ	J	Fuse Holder	AC
J2502	QJAKF0015AJZZ	U	Jack (VC-MH722HM/MH732HM)	AE
P201	QPLGN0447REZZ	J	Plug	AA
P804	QPLGZ0883GEZZ	J	Plug, 8pin (AC)	AD
P901	QPLGN0269GEZZ	J	Plug, 3pin (AP)	AB
P1501	QPLGN0447REZZ	J	Plug, 4pin (TP1501-4)	AA
SC301	QSOCN0611REN1	J	Socket,4pin (AH) (VC-M522HM)	AD
SC301	QSOCN0911REN1	J	Socket, 9pin (AH) (VC-MH722HM/MH732HM)	AD
SC601	QSOCN0604REN1	J	Socket, 6pin (AA)	AB
SC602	QSOCZ0293GEZZ	J	Socket,2pin (AE)	AC
SC801	QSOCN0704REN1	J	Socket, 7pin (AD)	AB
SC802	QSOCZ0625CEZZ	J	Socket, 6pin (AO)	AC
MISCELLANEOUS PARTS (Continued)				
SC803	QSOCZ0292GEZZ	J	Socket, 2pin (AL)	AC
SC804	QSOCZ1225CEZZ	J	Socket, 12pin (AG)	AD
SC805	QSOCN0506REN1	J	Socket, 5pin (AJ)	AC
SC1502	QSOCN0258FJ00	J	Socket, 9pin (AN) (VC-MH722HM/MH732HM)	AF
SC2151	QSOCN0604REN1	J	Socket, 6pin (AF)	AB
SC2501	QSOCZ4297UMZZ	U	21pin Jack	AH
SW701	QSW-F0042AJZZ	J	Rec Tip Switch	AG
SW807	QSW-K0097GEZZ	U	Switch, MENU	AB
SW810	QSW-K0097GEZZ	U	Switch, SET	AB

DUNTKE5737TEV1 OPERATION (1) Unit

RESISTORS

R881	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	AA
R882	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	AA
R883	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	AA
R884	VRD-RA2BE222J	J	2.2k	1/8W	Carbon	AA

MISCELLANEOUS PARTS

P881	QPLGZ0626CEZZ	J	Plug, 6pin (OA)	AF
SW881	QSW-K0097GEZZ	J	Switch, CH +	AB
SW882	QSW-K0097GEZZ	J	Switch, CH -	AB
SW883	QSW-K0097GEZZ	J	Switch, REC	AB
SW884	QSW-K0097GEZZ	J	Switch, PAUSE/STILL	AB
SW885	QSW-K0097GEZZ	J	Switch, STOP	AB

**DUNTKE5738TEV2 (VC-M522HM/MH722HM)
DUNTKE5738TEV3 (VC-MH732HM)
OPERATION (2) Unit**

TRANSISTORS

Q891	VSDTC144ES/-1	J	Transistor	AB
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Ref. No.	Part No.	★	Description	Code
Q892	VSDTC144ES/-1	J	Transistor	AB
DIODES AND LED'S				
D891	RH-PX0270GEZZ	J	Photodiode(VC-MH732HM)	AC
D892	RH-PX0270GEZZ	J	Photodiode(VC-MH732HM)	AC
D893	RH-PX0282GEZZ	J	Photodiode	AC
D894	RH-PX0280GEZZ	J	Photodiode	AC

CAPACITORS

C891	VCEA9M0JW476M	J	47	6.3V	Electrolytic	AB
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RESISTORS

R891	VRD-RA2BE331J	J	330	1/8W	Carbon	AA
R892	VRD-RA2BE221J	J	220	1/8W	Carbon	AA
R893	VRD-RA2BE221J	J	220	1/8W	Carbon	AA
R894	VRD-RA2BE122J	J	1.2k	1/8W	Carbon	AA
R895	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	AA
R896	VRD-RA2BE103J	J	10k	1/8W	Carbon	AA

MISCELLANEOUS PARTS

P891	QPLGZ1226CEZZ	J	Plug, 12ppin (GA)	AD
RMC891	RRMCU0064GEZZ	J	Remote Receiver	AG
SW891	QSW-K0097GEZZ	J	Switch, STANDBY	AB
SW892	QSW-K0097GEZZ	J	Switch, EJECT	AB
SW893	QSW-K0097GEZZ	J	Switch, TIMER/DNR/GAMMA	AB
SW894	QSW-K0097GEZZ	J	Switch, S.Picture	AB

**DUNTKE5739TEV2 (VC-M522HM)
DUNTKE5739TEV1 (VC-MH722HM/MH732HM)
F A/V Unit**

COILS

FB2101	VP-XF100J0000	J	Peaking	10μH	AB
FB2102	VP-XF100J0000	J	Peaking	10μH (VC-MH722HM/MH732HM)	AB

CAPACITORS

C2103	VCKYD41HB101K	J	100p	50V	Ceramic	AA
C2104	VCKYD41HB101K	J	100p	50V	Ceramic (VC-MH722HM/MH732HM)	AA

RESISTORS

R2101	VRD-RA2BE750J	J	75	1/8W	Carbon	AA
R2102	VRD-RA2BE101J	J	100	1/8W	Carbon	AB

MISCELLANEOUS PARTS

J2101	QJAKE0256GEZZ	U	Jack, VIDEO IN	AC
J2102	QJAKE0256GEZZ	U	Jack, L ch IN	AC
J2103	QJAKE0256GEZZ	U	Jack, R ch IN (VC-MH722HM/MH732HM)	AC
SC2101	QSOCN0604REN1	J	Socket, 6pin (FA)	AB

MECHANISM CHASSIS

1	LBNDK1011GEZZ	J	Tension Band Ass'y	AH
2	LBOSZ1007GEZZ	J	Tension Arm boss	AD
4	LBOSZ1006GEZZ	J	Cassette Stay L	AD
5	LCHSM0174GEZZ	J	Main Chassis Ass'y	AV
6	LHLDZ2016GEZZ	J	Loading Motor Block	AG
7	LPOLM0069GEZZ	J	Supply Pole Base Ass'y	—
8	LPOLM0064GEZZ	J	Take-Up Pole Base Ass'y	AM
9	MLEVF0518GEZZ	J	Take-Up Loading Arm Ass'y	AF
10	MLEVF0519GEZZ	J	Supply Loading Arm Ass'y	AF
11	MLEVF0499GEZZ	J	Pinch Drive Lever Ass'y	AG
12	MLEVF0500GEZZ	J	Pinch Roller Lever Ass'y	AW
15	MLEVF0523GEZZ	J	Tension Arm Ass'y	AH
16	LANGF9620GEFW	J	A/C Head Plate	AG

Ref. No.	Part No.	★	Description	Code
17	MLEVP0271GEZZ	J	Sifter Drive Lever	AE
18	MLEVP0272GEZZ	J	Pinch Double Action Lever	AD
19	MLEVP0301GEZZ	J	Reverse Guide Lever Ass'y	AL
20	MLEVP0275GEZZ	J	Reverse Drive Lever	AB
21	MLEVP0292GEZZ	J	Slow Brake Lever	AE
22	MLEVP0290GEZZ	J	Open Lever	AD
23	MLEVP0293GEZZ	J	Clutch Lever	AE
24	MLEVP0324GEZZ	J	Sup Main Brake Ass'y	AF
25	MLEVP0325GEZZ	J	Take-Up Main Brake Ass'y	AF
26	CLEVP0287AJZZ	J	Auto Head Cleaner Ass'y	AG
27	MSLiP0010GEZZ	J	Sifter	AH
29	MSPRD0175GEFJ	J	Reverse Guide Spring	AE
30	MSPRT0402GEFJ	J	Loading Double Action Spring	AE
31	MSPRT0403GEFJ	J	Pinch Double Action Spring	AD
32	MSPRC0213GEFJ	J	Earth Spring	AC
33	MSPRT0416GEFJ	J	Tension Spring	AD
34	NBLTK0067AJ00	J	Reel Belt	AE
35	NDAiV1078GE00	J	Reel Disk	AE
36	NGERH1293GEZZ	J	Loading Connect Gear	AD
37	NGERH1295GE00	J	Master Cam	AE
38	NGERH1294GEZZ	J	Casecon Drive Gear	AD
39	NGERH1270GEZZ	J	Take-Up Loading Gear	AF
40	NGERH1271GEZZ	J	Supply Loading Gear	AD
41	NGERH1272GEZZ	J	Pinch Drive Cam	AE
43	NGERH1299GEZZ	J	Reel Relay Gear	AE
44	NGERW1070GEZZ	J	Worm Gear	AD
45	NGERW1066GEZZ	J	Worm Wheel Gear	AD
46	NiDR-0018GEZZ	J	Idler Wheel Ass'y	AK
47	NPLYV0162GEZZ	J	Motor Pulley	AD
48	NPLYV0163GEZZ	J	Limiter Pulley Ass'y	AM
49	NROLP0131GEZZ	J	Guide Roller	AL
50	NSFTP0032GEZZ	J	Tension Pole Adjuster	AB
51	MSPRC0217GEFJ	J	Guide Roller Spring	AC
52	PREFL1011GEZZ	J	Light Guide	AE
53	QCNW-0319AJZZ	J	FFC for Drum Motor	AG
55	QCNW-8021AJZZ	J	FFC for A/C Head	AD
56	QPWBF5243AJZZ	J	A/C Head PWB	AE
57	QSOCN0605REN1	J	Socket, 6 pin	AB
58	RHEDT0036AJZZ	J	Full Erase Head	AM
59	RHEDU0088GEZZ	J	A/C Head Ass'y	AV
60	RMOTM1078GEZZ	J	Loading Motor	AP
61	RMOTN2055GEZZ	J	Capstan Motor	BA
62	RMOTP1139GEZZ	J	Drum Drive Motor	AN
63	DDRMW0029TEX2	J	Upper and lower drum Ass'y (VC-M522HM)	BP
63	DDRMW0030TEX3	J	Upper and lower drum Ass'y (VC-MH722HM/MH732HM)	BU
65	QBRSK0041GEZZ	J	Drum Earth Brush	AD
66	XBPSD26P05J00	J	Drum Drive Motor Mounting Screw (SW2.6P+5S)	AA
67	PGiDC0056GEFW	J	Drum Base	AL
68	QPWBF5468GEZZ	J	PWB(LDG Motor)	—
69	QLGZ0292GEZZ	J	Socket(LDG Motor)	AE
70	MSPRC0223AJFJ	J	Azimuth Spring	AC
71	MSPRC0224AJFJ	J	Height Adjusting Spring	AC

SCREW, NUTS AND WASHERS

201	XBPSD26P08000	J	Screw 2.6P+8S A/C Head	AA
202	LX-HZ3082GEZZ	J	A/C Head Screw	AD
203	XHPSD26P06000	J	Screw, 2.6P+6S (For Capstan Motor)	AA
207	XHPSD30P08WS0	J	Screw, C3.0P+8S (For Drum Base)	AA
208	XRESJ30-06000	J	E-Ring, E-3	AA
209	XWHJZ31-05052	J	Washer, W3.1-5.2-0.5	AC
210	XWHJZ31-03052	J	Washer, W3.1-5.2-0.3	AC
211	XWHJZ31-04052	J	Washer, W3.1-5.2-0.4	AC
212	XWHJZ31-06052	J	Washer, W3.1-5.2-0.6	AC
213	XWHJZ31-07052	J	Washer, W3.1-5.2-0.7	AC

Ref. No.	Part No.	★	Description	Code
214	PSPAP0009GEZZ	J	Reverse Guide Adjusting Nut	AA
216	LX-WZ1041GE00	J	CW 2.5-6-0.5 CAM/Limiter	AA
218	XBPSD30P08J00	J	Drum Base Mounting Screw (SW 3P+8S)	AA
220	LX-BZ3096GEFD	J	Tilt Adjusting Screw	AA
221	XBPSD26P06000	J	Azimuth Adjusting Screw 2.6+6S	AA
222	LX-BZ3197GEFD	J	Screw (A/C Head)	AD
223	XWHJZ31-08052	J	Washer, W3.1-5.2-0.8	AC

CASSETTE HOUSING CONTROL

300	CHLDX3081GE02	J	Cassette Housing Control Ass'y	AX
301	LANGF9592GEFW	J	Upper Plate	AL
302	LHLDX1028GE00	J	Frame (L)	AH
303	LHLDX1032GE00	J	Frame (R)	AH
304	LHLDX1030GEZZ	J	Holder (L)	AE
305	LHLDX1031GEZZ	J	Holder (R)	AE
306	MLEVF0469GEFW	J	Proof Lever (R)	AE
307	MLEVP0281GE00	J	Door Open Lever	AD
308	MSLiF0076GEFW	U	Slider	AD
309	MSPRD0151GEFJ	J	Proof Lever (R) Spring	AB
310	MSPRD0166GEFJ	J	Drive Gear (R) Spring	AE
311	MSPRP0159GEFJ	J	Cassette Spring	AD
312	MSPRT0381GEFJ	J	Double Action Spring	AB
313	NGERH1278GEZZ	J	Drive Gear L	AE
314	NGERH1309GEZZ	U	Drive Gear R	AB
315	NGERR1008GE00	J	Double Action Rack Gear	AE
316	NGERR3005GEFW	J	Drive Angle Gear	AG
317	NSFTD0041GEFD	J	Main Shaft	AF

MECHANICAL PARTS

600	CCABA3119TEV3	U	Top Cabinet Ass'y (VC-M522HM/MH722HM(GY))	AP
600	CCABA3119TEV7	U	Top Cabinet Ass'y (VC-MH722HM(S)/MH732HM)	AN
601	GCABB1214AJZZ	U	Main Frame	AG
602	GCOVA2137AJZZ	U	Antenna Terminal Cover (VC-M522HM)	AG
602	GCOVA2136AJZZ	U	Antenna Terminal Cover (VC-MH722HM/MH732HM)	AG
603	LX-HZ3102GEZZ	J	Screw (Top Cabinet) (VC-M522HM/MH722HM(GY))	AC
603	LX-HZ3101GEZZ	J	Screw (Top Cabinet) (VC-MH722HM(S)/MH732HM)	AF
604	LANGK0185AJFW	J	Top Cabinet Angle (R)	AE
605	LANGK0184AJFW	J	Top Cabinet Angle (L)	AD
606	LHLDZ2044AJZZ	J	Front PWB Holder (R)	AD
607	LHLDZ2045AJZZ	J	Front PWB Holder (L)	AA
609	XEBSD30P12000	J	Screw	AA
610	XESSF30P12000	J	Screw (Ant)	AB
611	XEPSD30P14XS0	J	Screw (Mecha)	AA
612	XJPSD30P10WS0	J	Screw (Loading Motor)	AA
613	LX-HZ3047GEFF	J	Screw (Bottom)	AB
614	PSLDM4551UMFW	J	Head Amp. Shield	AA
615	LHLDZ2046AJZZ	J	Display Holder (Top)	AB
616	LHLDZ2073AJZZ	J	Display Holder (Bottom)	AD
618	LHLDZ1962AJ00	J	Sensor LED Holder	AC
619	LHLDP1089AJ00	J	LED Holder	AB
621	TLABM0167UMZZ	U	Model Label	AD
622	LHLDZ2071AJZZ	U	PWB Holder (VC-MH722HM/MH732HM)	AB
623	LX-HZ3098GEFF	J	Screw (PWB)	AA
624	XHPSD30P06WS0	J	Screw	AA
625	GBDYU3111AJFW	U	Bottom Plate	AA
626	PGUMS0026UMZZ	U	Foot Rubber	AD
627	LHLDZ2055AJZZ	J	LED Holder (SAT) (VC-MH732HM)	AD

Ref. No.	Part No.	★	Description	Code
FRONT PANEL PARTS				
501	CPNLC2637TEY1	U	Front Panel Ass'y (VC-M522HM)	
501	CPNLC2590TEY1	U	Front Panel Ass'y (VC-MH722HM(S))	
501	CPNLC2590TEY2	U	Front Panel Ass'y (VC-MH722HM(GY))	
501	CPNLC2591TEY1	U	Front Panel Ass'y (VC-MH732HM)	
501	CPNLC2637AJSA	U	Front Panel (VC-M522HM)	
501	CPNLC2590AJSA	U	Front Panel (VC-MH722HM(S))	
501	CPNLC2590AJSB	U	Front Panel (VC-MH722HM(GY))	
501	CPNLC2591AJSA	U	Front Panel (VC-MH732HM)	
501-2	HBDGB3019AJSB	U	SHARP Badge	
501-3	HDECQ2089AJSA	U	Cassette Flap (VC-M522HM)	
501-3	HDECQ2038AJSA	U	Cassette Flap (VC-MH722HM(S)/MH732HM)	
501-3	HDECQ2038AJSB	U	Cassette Flap (VC-MH722HM(GY))	
501-4	HDECQ1914AJSA	J	Flap Dec.	AD
501-5	HDECQ2039AJSA	U	Window Dec.	
501-6	JBTN-2920AJSC	J	Button, Stop (VC-M522HM/MH722HM(GY))	
501-6	JBTN-2920AJSB	J	Button, Stop (VC-MH722HM(S)/MH732HM)	AF
501-7	MSPRD0103AJFJ	J	Cassette Spring	AB
501-8	JBTN-2898AJSA	J	Button, MENU/SET	AE
501-9	JBTN-2899AJSD	U	Button, CH (VC-M522HM/MH722HM(GY))	
501-9	JBTN-2999AJSA	U	Button, CH (VC-MH722HM(S)/MH732HM)	
501-10	JBTN-2971AJSB	U	Button, Timer (VC-M522HM/MH722HM(GY))	
501-10	JBTN-2971AJSA	U	Button, Timer (VC-MH722(S)/MH732HM)	AE
501-11	JBTN-2902AJSD	J	Button, Power (VC-M522HM/MH722HM(GY))	
501-11	JBTN-2902AJSA	J	Button, Power (VC-MH722HM(S)/MH732HM)	
501-12	HDECQ1908AJSA	J	GAMMA LED Dec.	AE
501-13	HDECQ1909AJSA	J	DISPLAY LED Dec.	AE
501-14	JBTN-2900AJSD	J	Button, REC (VC-M522HM/MH722HM(GY))	
501-14	JBTN-2900AJSA	J	Button, REC (VC-MH722HM(S)/MH732HM)	AE
502	XEBSD26P08000	U	Screw, JOG SW.	AB
503	QSW-Z0071GEZZ	J	JOG SW.	AM
504	JBTN-2972AJSB	U	Button, PLAY (VC-M522HM/MH722HM(GY))	
504	JBTN-2972AJSA	U	Button, PLAY (VC-MH722HM(S)/MH732HM)	AD
505	JKNBK1110AJSE	U	Knob (VC-M522HM/MH722HM(GY))	
505	JKNBK1110AJSD	U	Knob (VC-MH722HM(S)/MH732HM)	AD
506	TLABZ1622UMZZ	U	Feature Label	AA

SUPPLIED ACCESSORIES

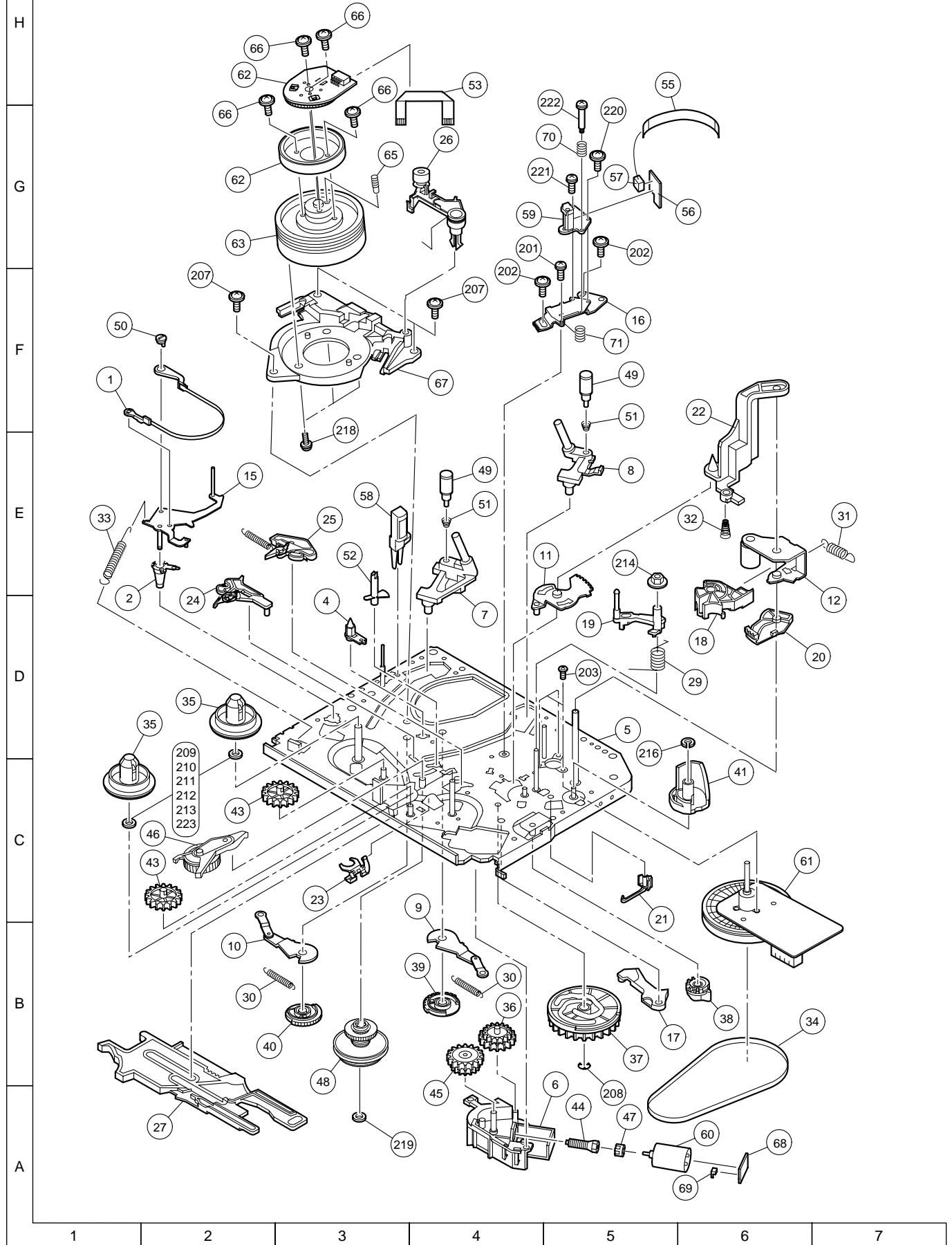
ACCESSORIES				
QCNW-7870UMZZ	U	75ohm Coaxial Cable		AH
RRMCG0247AJSA	U	Infrared Remote Control Unit(VC-M522HM/MH722HM)		
90A64EC1822P	U	Battery Cover,Infrared Remote Control (VC-M522HM)		

Ref. No.	Part No.	★	Description	Code
90A64EC2195A	U	Battery Cover,Infrared Remote Control (VC-MH722HM)		
RRMCG0269AJSB	U	Infrared Remote Control Unit(VC-MH732HM)		
90A64EC2010D	U	Battery Cover,Infrared Remote Control (VC-MH742HM)		
TiNS-3584UMZZ	U	Operation Manual (VC-M522HM)		
TiNS-3563UMZZ	U	Operation Manual (VC-MH722HM)		
TiNS-3564UMZZ	U	Operation Manual (VC-MH732HM)		

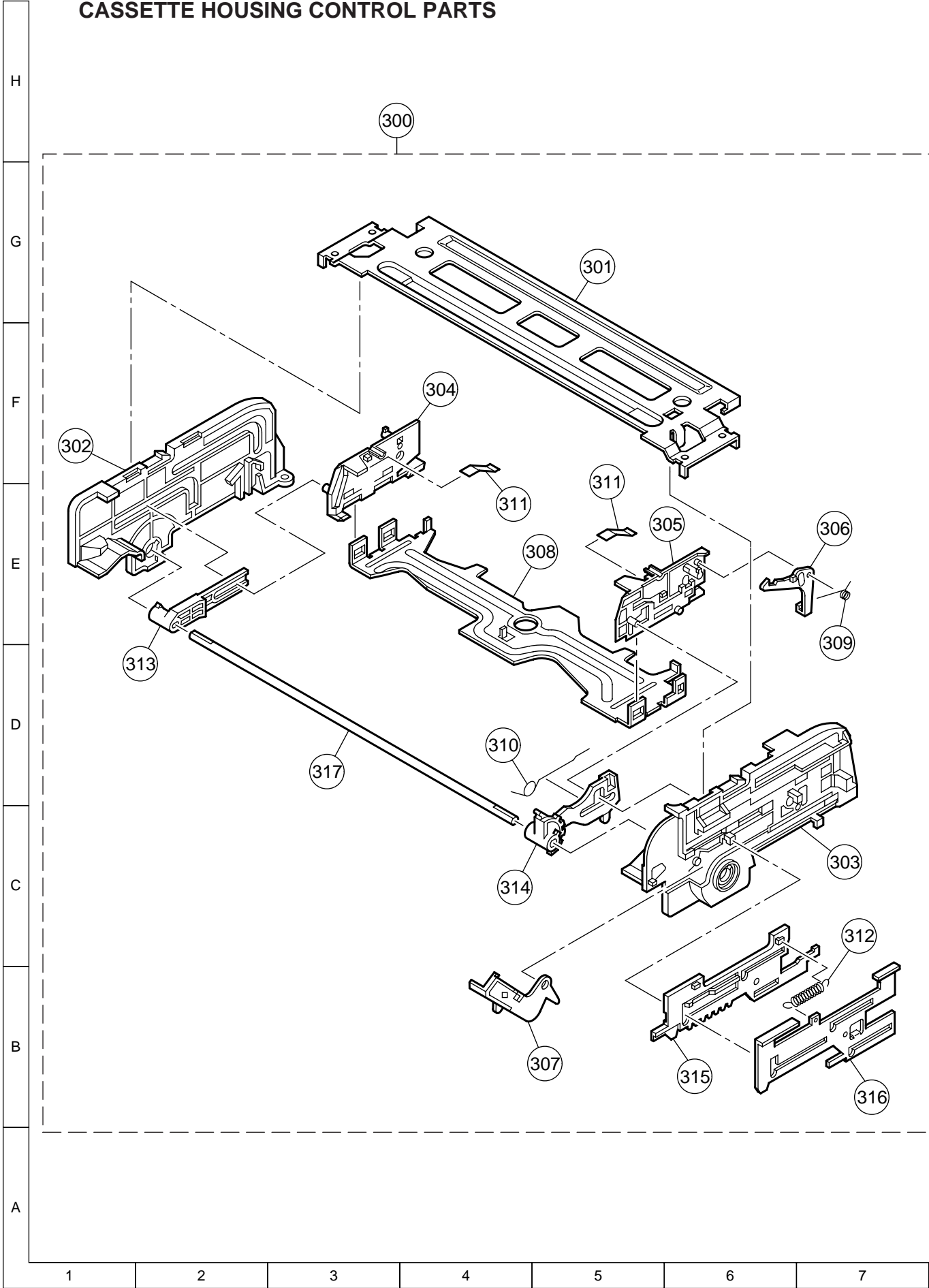
ACCESSORIES(NOT REPLACEMENT ITEM)

CPAKC4061UMZZ	-	Packing Case (VC-M522HM)	—
CPAKC4060UMZZ	-	Packing Case (VC-MH722HM)	—
CPAKC4062UMZZ	-	Packing Case (VC-MH732HM)	—
SPAKX1043UMZZ	-	Buffer Material (Paper)	—
SPAKP0051UMZZ	-	Foam Bag	—

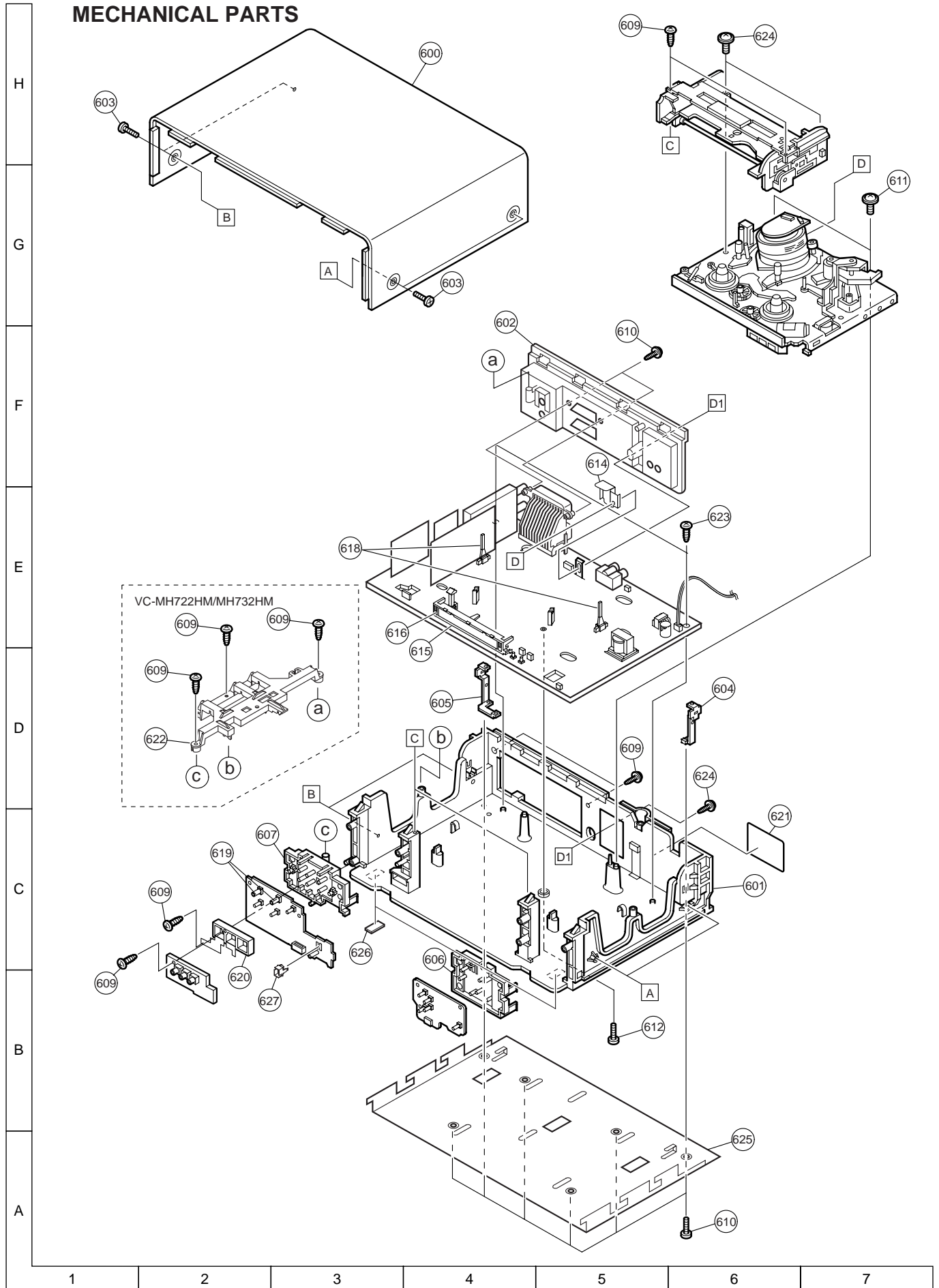
11. EXPLODED VIEW OF MECHANISM PARTS MECHANISM CHASSIS PARTS



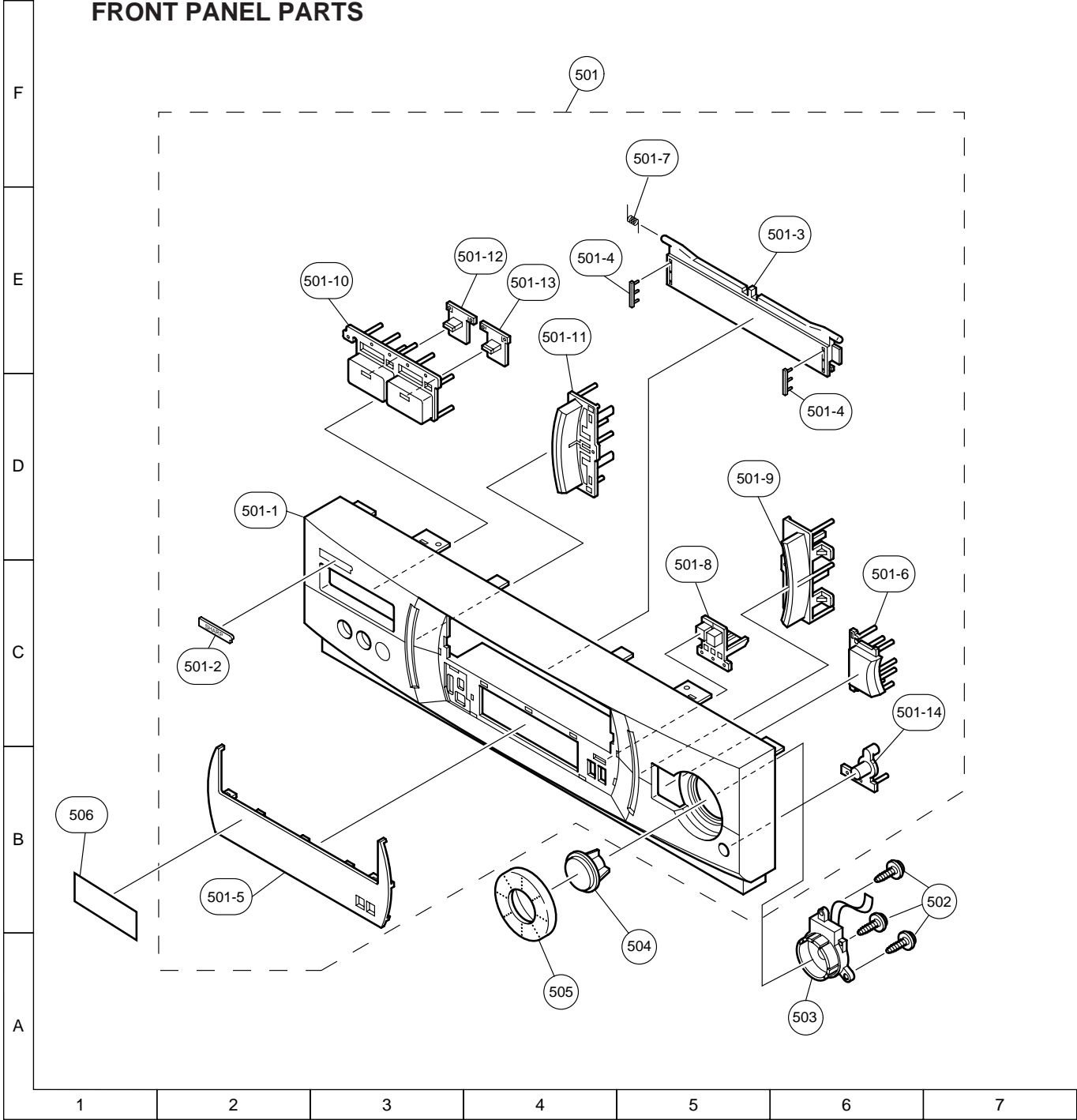
CASSETTE HOUSING CONTROL PARTS



MECHANICAL PARTS



FRONT PANEL PARTS



PRECAUTION ON FRONT PANEL SET-UP

Cassette housing
Cassette cover open lever

Front panel
Cassette cover
Cassette cover open lever
About 45°

Cassette cover
1
2
3
4
5

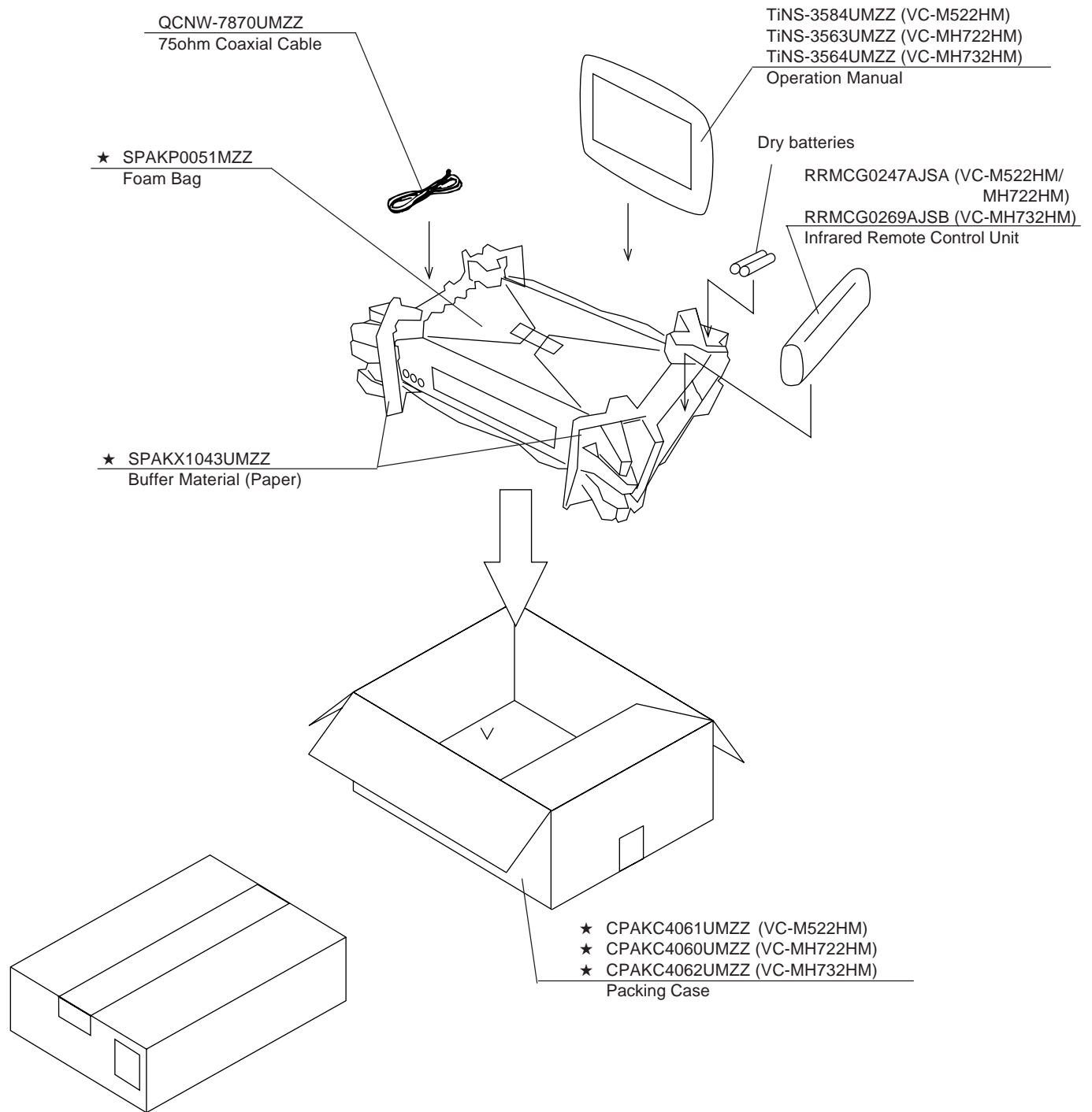
Before attaching the front panel in position, make sure that the cassette cover open lever is in its right place (lower-most). If it is out of position, push it down with a finger.

Keep the cassette over about 45° open and make sure that the cassette cover open lever is between the front panel and the cassette cover. Now fix the front panel in place.

Do not mount the front panel with the cassette cover tilted too open. Otherwise the cassette cover might wrongly run on the cassette housing.

Removing the cassette compartment cover.
① Open the cassette compartment cover fully.
② Remove the center positioner.
③ Slide the cover to the right.
④ Slightly bend the cover.
⑤ Draw out the left-side rod.

12. PACKING OF THE SET



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